

climical chemistry

Journal of the American Association for Clinical Chemistry

JANUARY

1 INFORMATION FOR AUTHORS

- 5 GUEST EDITORIAL: The Biochemical Service: The Professional Function of the Clinical Chemist in the Hospital
- Réjean Daigneault and Yves Deschamps
- 7 RÉVIEW: The Value of Complement Assays in Clinical Chemistry J. T. Whicher
- 23 Urinary Free Methyldopa Determined by Reversed-phase High-performance Liquid Chromatography
- Leroy D. Mell and Anthony B. Gustafson

 27 Automated Procedure for Kinetic Measurement of
- Total Triglycerides (as Glycerol) in Serum with the Gilford System 3500 Gary Lehnus and Lynn Smith
- 32 Improved Radiochemical Assay for Carniline and Its Derivatives in Plasma and Tissue Extracts Judith A. Pace, Robert W. Wannemacher, Jr., and Harold A. Neufeld
- 36 Determination of a Tricyclic Antidepressant, Clompramine (Anafranil), in Plasma by a Specific Radioimmunoassay Procedure G. F. Read and D. Riad-Fahmy
- Sensitive Gas-Chromatographic Determination of Fluphenazine in Human Plasma
 Michael Franklin, David H. Wiles, and David J.
- Harvey
 45 Analysis for 1,3-Bis(2-chloroethyl)-1-nitrosourea
 by Chemical Ionization Mass Spectrometry
- Robert J. Weinkam, Judy H. C. Wen, Daniel E. Furst, and Victor A. Levin Gas-Liquid Chromatographic Determination of Nicotine and Cotinine in Plasma
- Nikolaus Hengen and Michaela Hengen

 14 Influence of Large Doses of Ascorbic Acid on
 Laboratory Test Results
 André C. Van Steirteghem, E. Arthur Robertson, and
- Donald S. Young

 58 Optimization of Methods for Aspartate Aminotransferase and Alanine Aminotransferase

 Hans Ulrich Bergmeyer, Peter Scheibe, and August
- 74 Changes in Serum and Urine Lysozyme Activity after Kidney Transplantation: Influence of Graft Function and Therapy with Azathioprine Geza Horpacsy, Jörg Zinsmeyer, Karsten Schräder, and Möritz Mebel

Wilhelm Wahlefeld

- 80 New Automated Dye-Binding Method for Serum Albumin Determination with Bromcresol Purple Andrew E. Pinnell and Barry E. Northam
- 87 Liquid-Chromatographic Procedure for Tricyclic Drugs and Their Metabolites in Plasma F. L. Vandemark, Reginald F. Adams, and G. J. Schmidt
- 92 Applications of a New Instrument, the Potentiophotometer Wallace E. Carroll, R. David Jackson, and Alan A.

Wilcox

- 95 Homogeneous Enzyme Immunoassay for Cannabinoids in Urine Richard Rodgers, Catherine P. Crowl, Wendy M. Eimstad, Mae W. Hu, Jean K. Kam, Robert C.
- Ronald, Gerald L. Rowley, and Edwin F. Ullman 101 Direct Micromethod for Colorimetry of Serum Ornithine Carbamoyltransferase Activity, with Use of a Linear Standard Curve Ahmad A. Vassef
- 108 Automated Enzymic Measurement of Total Cholesterol in Serum
- Gopal S. Rautela and Raymond J. Liedtke 115 Faster Radioimmunoassay of Angiotensin I at 37 °C
- Frej Fyhrquist and Liisa Puutula

 119 Direct Analysis for Cholesterol in Gallstones by
 Use of Differential Scanning Calorimetry Transition
 Phase
 Gisseppe D'Asceppe Enrice Cardarelli Andrea
- Giuseppe D'Ascenzo, Enrico Cardarelli, Andrea Domenico Magri, Teresa Bica, and Massimo Sabbatini 122 Determination of Some I-3,4-Dihydroxypheny-
- Ialanine and Dopamine Metabolites in Urine by Means of Mass Fragmentography Frits A. J. Muskiet, Dineke C. Fremouw-Ottevangers, Jan van der Meulen, Bert G. Wolthers, and Jacques A. de Vries.

EDITORIAL

128 A New Category of Article: Case Conferences
Donald S. Young

CASE CONFERENCE

129 Acid Phosphatase and Prostatic Carcinoma Jack H. Ladenson and Jay M. McDonald

SCIENTIFIC NOTES

135 Buffer-Exchange Column for Rapid Separation of Carcinoembryonic Antigen from Perchloric Acid Darrow E. Haagensen, Jr., Richard L. Easterday, Catherine A. Stolle, and Samuel A. Wells, Jr.

- 137 Results for Serum and Plasma Compared in 15 Selected Radioassays Norman P. Kubasik and Harrison E. Sine
- 140 Counterimmunoelectrophoresis in Determination of Prostatic Acid Phosphatase in Human Serum Andras G. Foti, J. Fenimore Cooper, and Harvey Herschman
- 143 Evaluation of the Harleco Micro CO₂ System for Measurement of Total CO₂ in Serum or Plasma C. W. K. Lam and I. K. Tan
- 146 The Peak Monitor of the Technicon SMAC System I. W. Percy-Robb, D. Simpson, R. H. Taylor, and L. G. Whithy
- 149 Simple Determination of High Urinary Excretion of 5-Hydroxyindole-3-acetic Acid with Ferric Chloride
- Yoshihisa Yamaguchi and Chozo Hayashi 150 Plasma Glucose Measurement with the Yellow Springs Glucose Analyzer K. S. Chua and I. K. Tan
- 153 Selective Staining of α_1 -Antitrypsin (α_1 -Protease Inhibitor) with Schift's Reagent after Separation from Serum by Analytical Isoelectrofocusing in Polyacrylamide Gel Albert Hercz and Marcela Barton
- 155 Variability among Commercially Available Digoxin Radicimmunoassay Kits in Cross Reactivity to Dihydrodigoxin William G. Kramer, Nikki L. Kinnear, and H. Keith
- Morgan
 157 Lipoprotein Cholesterol in the Serum of Children, as Determined Independently by Two Different Methöds
 Sathanur R. Srinivasan, Ralph D. Ellefson, Carl F.
- Whitaker, and Gerald S. Berenson
 161 Use of the Du Pont aca to Measure Cholesterol in
 High-Density Lipoprotein Fractions Prepared by the
 Heparin/Mn²⁺ Precipitation Method
 Raymond J. Liedtke, Barbara Busby, and John D.
- 165 Evaluation of Homogeneous Enzyme Immunoassay of Serum Thyroxine with Use of Bichromatic Analysis Paul R. Finley and R. Jane Williams

LETTERS

168 Noise Reduction in an AutoAnalyzer II Direct Cholesterol Method Michael Tria, Laureen Ku, and Irving Abrahams (Reply) George C. Pu

- 169 Contamination-Free Serum Samples for Trace Analyses Jay E. Gorsky and Albert A. Dietz
- 169 Fluorimetry of Propranolol and Its Glucuronide: Applicability, Specificity, and Limitations M. Kraml and W. T. Robinson
- 171 More Economical Use of Chromatographic Plates for Drug Screening Joyce A. McIntyre, Maureen Black, Max E. McIntosh, and Jerry K. Lynn
- 173 Source of Error in Cerebrospinal Fluid Protein Determination with the Du Pont Automatic Clinical Analyzer George Gotelli, Donys Weingartner, and Lawrence
- J. Marton
 173 Values for Uric Acid in Patients' Sera as Measured
 with SMAC (Phosphotungstate) and AutoAnalyzer
 (Uricase)
 E. Arthur Robertson, Claire A. Silva, and Donald S.

Young 174 Faster Lipoprotein Isolation by Gradient Flota-

tion
J. Viikari and H. Saarni

- 174 Paris Necessary for Phenytoin Assay No Longer Scid Dan Mullen
- 174 Modified Method for Estimating the Lecithin/ Sphingomyelin Ratio in Amniotic Fluid Herbert H. Kohl, David H. Telander, Jr., Eugene C. Roberts, and Howard C. Elliott, Jr.
- 176 Problems of Laser Nephelometry in Human Lysozyme Assay Jason Hyun
- 176 Effect of Ascorbic Acid in Vitamin B₁₂ Quality-Control Sera Elliott Block, Anand Akerkar, and Mary Hoholick
- 177 Inhibition of Creatine Kinase Activity by Ca²⁺ and Reversing Effect of Ethylenediaminetetraacetate Wolfgang Gruber
- 178 Use of Either Serum or Plasma for Folate and Vitamin B₁₂ Determinations
- Anand Akerkar, Mary Hoholick, and Elliott Block

 178 Artifactual Alkaline Phosphatase Isoenzyme Band,
 Caused by Billrubin, on Cellulose Acetate Electropherograms

 Eugene Hardin, Richard B. Passey, and John B.
 Fuller
- 179 Accuracy of Immunological Methods for Measurement of Creatine Kinase Isoenzyme Activilies

E. Jockers-Wretou and G. Pfleiderer (Reply)

185 THE CLINICAL CHEMIST

Leo G. Morin

J. Stanton King

BOOK REVIEWS

181 F. Lee Rodkey, Norman D. Lee, Charles D. Scott, and A. W. Renuart

FEBRUARY

- 189 GUEST EDITORIAL: The Future of Clinical Microchemical Analysis David Glick
- 193 Method for Screening Urinary Steroids by Gas Chrematography Paul Trocha and N. A. D'Amato

- 200 Determination of Pyruvate Oxidation Rate and Citric Acid Cycle Activity in Intact Human Leukocytes and Fibroblasts
 - Hans L. Willems, Ted F. M. de Kort, Frans J. M. Trijbels, Leo A. H. Monnens, and Jacques H. Veerkamp
- 204 Measurement of Free and Free-plus-Peptide Hydroxyprolline Fractions in Plasma Harry Husdan, Mary Leung, Dimitrios Oreopoulos, and Abraham Rapoport
- 208 p-Nitrophenol-α-D-Glucopyranoside as Substrate for Measurement of Maltase Activity in Human Semen
 Pierre Chapdelaine, Roland R. Tremblay, and Jean
- Y. Dubé 212 Varlance Components of Serum Constituents in Healthy Individuals André C. Van Steirteghem, E. Arthur Robertson, and
- Donald S. Young

 223 Use of a Programmable Calculator in Processing
 and Interpreting Serum Cholinesterase Phenotypes

P. Brown, M. J. McQueen, and M. C. Patterson 227 Hyperlipoproteinemia Phenotype Determination by Agarose Gel Electrophoresis Updated

Nick M. Papadopoulos

230 Hemopyrrole and Kryptopyrrole Are Absent from
the Urine of Schizophrenics and Normal Persons
Paul L. Gendler, Harold A. Duhan, and Henry Ra-

poport

234 Immobilized-Enzyme Nylon-Tube Reactors for Routine Determination of Urea and Citrulline in

Serum
P. V. Sundaram, M. P. Igloi, R. Wassermann, W. Hinsch, and K.-J. Knoke

240 Methods Compared for Determining Zinc in Serum by Flame Atomic Absorption Spectroscopy James R. Kelson and Raymond J. Shamberger

245 Creatine Kinase in Serum: 4. Differences in Substrate Affinity among the Isoenzymes Gabor Szasz and Wolfgang Gruber

- 250 Determination of Uric Acid on Continuous-Flow (AutoAnalyzer II and SMA) Systems with a Uricase/Phenol/4-Aminophenazone Color Test Sigmar Klose, Michael Stoltz, Eberhard Munz, and Rudolf Portenhauser
- 256 Automated Assay of γ-Aminobutyric Acid in Human Cerebrospinal Fluid Peter Böhlen, Paul J. Schechter, Willy van Damme, Gilles Coquillat, Jean-Claude Dosch, and Jan Koch-Weser
- 261 Optimal Reaction Conditions for Assaying Human Lactate Dehydrogenase Pyruvate-to-Lactate at 25, 30, and 37 °C Steven N. Buhl, Kathryn Y. Jackson, and Barbara Grafffunder
- 267 A Practical Radioimmunoassay of Thyroglobulin P. Bodlaender, J. R. Arjonilla, R. Sweat, and S. L. Twomey
- 272 Sensitive Radioimmunological Screening Test For Anti-Thyroglobulin Autoantibodies
 P. Bodlaender, J. R. Arjonilla, and S. L. Twomey
- 275 RadioImmunoassay of Alpha-Fetoprotein, with Special Reference to Iodination and Purification Techniques Harvey S. Schiller, Linda Kulchinski, and David A.

Luthy

280 Electroimmunoassay, Radioimmunoassay, and

Padiol Immunodiffusion Assay Evaluated for

- Radial Immunodiffusion Assay Evaluated for Quantification of Human Apolipoprotein B Michael D. Curry, Anders Gustafson, Petar Alaupovic, and Walter J. McConathy
- 287 Assay of Vitamins D₂ and D₃, and 25-Hydroxyvitamins D₂ and D₃ in Human Plasma by High-Performance Liquid Chromatography Glenville Jones
- 299 Determination of Quinidine by High-Performance Liquid Chromatography James L. Powers and Wolfgang Sadee

- 203 Determination of Chromium and Cobalt in Human Serum by Neutron Activation Analysis Jacques Versieck, Julien Hoste, Fabrice Barbier, Herman Steyaert, Julien De Rudder, and Hilde Michels
- 309 Tartrate-Resistant (Band 5) Acid Phosphatase Activity Measured by Electrophoresis on Acrylamide Gel William K. W. Lam, Linda C. Lai, and Lung T. Yam
- 313 Individual Character of Variation in Time-Series Studies of Healthy People II. Differences in Values for Clinical Chemical Analytes in Serum among Demographic Groups, by Age and Sex George Z. Williams, Graham M. Widdowson, and James Penton
- 321 Simplified Two-Step Column-Chromatographic Determination of Taurine in Urine Mario A. Anzano, Jocelyn O. Naewbanij, and Adrian J. Lamb
- 826 An Enzymatic Triglyceride Method That Is Suitable for Long-Term Population Studies Donald F. Koehler, Bernard W. Steele, Miguel M. Azar, Kanta Kuba, and Mary E. Dempsey
- 330 Analytical Performance and Comparability of the Determination of Triglycerides by 12 Lipid Research Clinic Laboratories Sue Ahmed, Kenneth Lippel, Paul Bachorik, John Albers, Jackie Williams, and Gerald Cooper

38

38

38

38

39

39

39

392

394

399

403

414

419

SCIENTIFIC NOTES

- 339 Solid-Phase Radioimmunoassay for Morphine, with Use of an Afflinity-Purified Morphine Antibody Martin Steiner and James L. Spratt
- 342 Automated Measurement of Serum Thyroxine with the "ARIA II," as Compared with Competitive Protein Binding and Radioimmunoassay Max G. Reese and LaVell R. Johnson
- 344 High-Speed Automated Atomic Absorption Spectrophotometry C. H. McMurray and W. J. Blanchflower
- 348 Gas-Chromatographic Method for Plasma Acetate Analysis in Acetate-Intolerance Studies Leonard G. Nielsen, K. Owen Ash, and Elizabet Thor
- 351 Faster Determination of Clottable Fibrinogen in Human Plasma: An Improved Method and Kinetic Study Yuji inada, Hiroshi Okamoto, Shozo Kanai, and Yutaka Tamaura
- 854 Enzymatic Determination of Triglycerides in Human and Baboon Serum Glen E. Mott and Michael L. Rogers
- 357 High-Performance Liquid-Chromatographic Determination of Theophylline in Plasma Geoffrey W. Peng, M. A. F. Gadalla, and Win L. Chiou
- 250 Improved Ultraviolet Spectrophotometry of Serum Theophylline Harvey A. Schwertner, J. E. Wallace, and K.
- 362 Preparation of Ligand-Free Human Serum for Radioimmunoassay by Adsorption on Activated Charcoal Paul Carter
- 365 Liquid Chromatographic Assay of Cefuroxime in Serum
- Ingrid Niisson-Ehle and Peter Niisson-Ehle 367 Spectrophotometry of Theophylline-7-acetic Acid and Theophylline James A. Owen and Kanji Nakatsu
- 369 Automated Serum Albumin Determination by Use of the Immediate Reaction with Bromcresol Green Reagent Jan E. C. Gustafsson
- 374 Evaluation of a Radiometric Method for Determination of Total and Unsaturated Iron-binding Capacities and Serum Iron Andrew N. Fudge and Callum G. Fraser

- 376 Determination of 5-Hydroxytryptophan in Plasma by High-Performance Liquid Chromatography and Fluorometric Detection after Phthaldialdehyde Reaction
- Frode Engback and Ib Magnussen
 379 D(-)-N-Methylglucamine Buffer for pH 8.5 to
 10.5
- V. Chromý, V. Kulhánek, and J. Fischer
 381 Measurement of Chloride in Sweat by Use of a
 Selective Electrode and Strip-Chart Recorder
 Warren J. Warwick and Leland G. Hansen

 Warren J. Warwick and M. Warren G. Warren

CASE REPORT

383 Pitfalls of the Alcohol Dehydrogenase Procedure for the Emergency Assay of Alcohol: A Case Study of Isopropanol Overdose John Vasiliades, James Poilock, and C. Andrew Robinson

LETTERS

- GBE Improved Spectrophotometric Vitamin A Assay Cirlene Ribeiro Correia de Araujo and Hernando Flores
- 386 Evaluation of a Glucose Method in Which a Hydrogen Peroxide Electrode Is Used
 W. William Spencer, Diane Sylvester, and Gilbert
 H. Nelson
- 387 Assessment of Thyroxine by Enzyme Immunoassay with the ABA-100 Analyzer Frederick Van Lente and Daniel J. Fink
- 388 Antisera as a Source of Inaccuracy in Protein Immunoassays
- 388 Source of Error in Determination of Erythrocyte
 Folate by Competitive Binding Radioassay—
 Comments
 Sidney Gutcho
 (Reply)
 O. M. Bakke
- 389 An Assessment of Hospital Routine Urinalysis Elliott Simpson and Douglas Thompson
- 390 Fleixble Procedure for Estimating the L/S Ratio Lewis T. Mann, Jr.
- 391 Enzyme Immunoassay, with Use of a Centrifugal Analyzer, of Phenytoin, Phenobarbital, and Theophylline James P. Long
- 391 More on Use of Hair in Trace-Metal Analysis Dennis Shapcott
- 392 Bilirubin Interference with the Kinetic Jatfé Method for Serum Creatinine Ned A. Daugherty, Keith B. Hammond, and Iris M. Osberg

BOOK REVIEWS

394 M. Anbar

ic

an

ım

K

for

ed

in

cid

Use

een

Ca-

399 THE CLINICAL CHEMIST J. S. King

MARCH

- 403 Performance Evaluation of Multi-Channel Analyzers by Use of Linearly-Related Survey Specimens Timothy E. Caragher and George F. Grannis
- #14 Radioimmunoassay of Creatine Kinase Isoenzymes in Human Serum: Isoenzyme MM Andre C. Van Steirteghem, Mark H. Zweig, and Alan N. Schechter (with an Appendix by Jay A. Berzofsky
- #419 Appendix: The Assessment of Antibody Affinity from Radioimmunoassay Jay A. Berzofsky

- 422 Radioimmunoassay of Creatine Kinase Isoenzymes in Human Serum: Isoenzyme 88 Mark H. Zweig, Andre C. Van Steirteghem, and Alan N. Schechter
- 429 Radioimmunoassay for Mono-(2-ethylhexyl) Phthalate in Unextracted Plasma Michael I. Luster, Phillip W. Albro, Kun Chae, George Clark, and James D. McKinney
- 433 An Enzymatic Assay for Determining Free and Total Cholesterol in Tissue Janet L. De Hoff, Larry M. Davidson, and David Kritchevsky
- 435 Archival Storage of Clinical Laboratory Data Stuart Soffer, Steve Entine, Thomas Wolfe, Arthur Eggert, and Richard Friedman
- 442 Quantitative Toxicology: Interlaboratory and Intermethod Evaluation in New York State Steven N. Buhl, Patricia Kowalski, and Raymond E. Vanderlinde
- 440 Amperometric Nonenzymatic Determination of Serum Glucose by Means of a Nickel-Catalyst Electrode
- K. G. Schick, V. G. Magearu, and C. O. Huber 451 Parathyrin Radioimmunoassay: Diagnostic Utility of Antisera Produced against Carboxyl-terminal Fragments of the Hormone from the Human F. P. Di Bella, J. M. Kehrwald, K. Laakso, and L. Zitzner
- 455 Enzyme Immunoassay for Human Apolipoprotein B, the Major Protein Moiety in Low-Density- and Very-Low-Density Lipoproteins Jean Charles Fruchart, Catherine Desreumaux, Philippe Dewailly, Georges Sezille, Jacques Jaillard, Yves Carlier, Daniel Bout, and André Capron
- ABOI A Solid-Phase Radioimmunoassay for Vitamin B₁₂ in Serum, with Use of Radioiodinated Tyrosine Methyl Ester of Vitamin B₁₂ David B. Endres, Kent Painter, and Gordon D. Niswender
- 485 Purification of Human Prostatic Acid Phosphatase by Affinity Chromatography and Isoelectric Focusing. Part I. Pirkko Vihko, Matti Kontturi, and L. Kalevi Korhonen
- 471 Flameless Atornic Absorption Spectrophotometric Determination of Manganese in Rat Brain and Other Tissues Ernesto Bonilla
- 475 Direct Assays of Lactate, Pyruvate, β-Hydroxybutyrate, and Acetoacetate with a Centrifugal Analyzer Jessie L. Hansen and Esther F. Freier

SCIENTIFIC NOTES

- 480 Improved Column Method for Separating Lactate
 Dehydrogenase Isoenzymes 1 and 2
 Donald W. Mercer
- 483 Quantitation of Anticonvulsant Drugs in Serum by Gas-Chromatography on the Stationary Phase SP-2510
- William Godolphin and Jerry Thoma 486 Preservation of Acid Phosphatase Activity in Medico-Legal Specimens Robert K, Lantz and Richard B, Eisenberg
- 489 Evaluation of the Du Pont aca Ammonia Procedure
- S. T. IJpma, B. G. Blijenberg, and B. Leijnse 492 Natural Fluorescence in Serum of Patients with Chronic Renal Failure Not to Be Confused with Creatine Kinase-BB Isoenzyme
- H. Aleyassine, D. B. Tonks, and M. Kaye
 Spurious Underestimation of Results for Digoxin Radioimmunoassay with a Commercial Kit Lynn R. Witherspoon, Stanton E. Shuler, and Meredith M. Garcia
- 498 Adenylate Kinase Inhibition by Adenosine 5'-Monophosphate and Fluoride in the Determination of Creatine Kinase Activity

- Franco Meiattini, Giuliano Giannini, and Paolo Tarli
- 502 Improved Method for Fractionating γ-Glutamyltransferase by Electrophoresis on Cellulose Acletate Angelo Burlina
- 504 Some Factors Affecting the Utility of Bovine Blood as a Control Material in Lead-Screening Programs. Zelda Penton and Glenn Bissell

506 CORRECTIONS

SPECIAL REPORT

¹ 507 Toxicology Test-Ordering Patterns in a Large Urban General Hospital during Five Years: An Update Clifford B. Walberg, Violet A. Pantlik, and George D. Lundberg

LETTERS

- 512 Analysis for Lactate and Pyruvate with the LKB 8600 Reaction Rate Analyzer D. Fraser Davidson
- 513 Evaluation of EDTA-Chelated Biuret Reagent Containing Glycine and Sodium Chloride V. Chromý, J. Vozníček, and J. Fischer
- 514 Enzyme Immunoassay of Theophylline with a Centrifugal Analyzer, and Comparison with an Ultraviolet Method Veronica Henry, Jack Deutsch, and Gifford Lum
- 514 Effect of Antibody Binding on the Mobility of Serum Lysozyme
- Gabriel Virella, Win Anne Hipp, and W. Hood 515 Modified Continuous-Flow Determination of α-Amylase Activity in Serum and Urine with the Phadebas Amylase Test Wilhelm Koch Knudsen, Terkel Arnfred, Jørn Dyerberg, and Kaj Fogh
- 517 Comparison of Two 2,3-Diphosphoglycerate Assays Mary Edith Ledford, Gerald L. Moore, and Thomas
- A. Bensinger
 Use of Dihydrofolate Reductase from Bovine Liver,
 Rather than from *L. casei*, for Determining
 Methotrexate
- Richard J. Brooks
 518 Evaluation of the BMC Column-Chromatographic
 Method for Creatine Kinase Isoenzyme MB
 M. J. McQueen, L. Mori, and Elspeth Dev
- 520 Enzyme Immunoassay of Theophylline with the ABA-100
- Henry Stone and Bobbie Gillilan
 520 More on Transient Hyperphosphatasemia in Infancy—an Insufficiently Recognized Syndrome
- 522 How Rapid is "Rapid"? Part II. "Rapid" Simultaneous Radioimmunoassay Of Thyroxine and Thyrotropin Jeffrey C. Travis and Peter B. Dewhurst (Reply)
- Allen W. Root 523 Antibodies to Polyamines: Some Overlooked References Dagmar Bartos, Frantisek Bartos, Donald Grettie,

BOOK REVIEWS

and Robert Campbell

524 Elizabeth R. Solow, Thomas Bright, and Nathan Gochman

527 THE CLINICAL CHEMIST J. S. King

- 531 Method-Specific Variations in the Calibration of a riew Immunoglobulin Standard Suitable for Use in Nephelometric Techniques
 - John T. Whicher, James Hunt, David E. Perry, John R. Hobbs, Richard Fifield, James Keyser, Joarchim Kohn, Pamela Riches, Arthur M. Smith, Ronald A. Thompson, Anthony Milford Ward, and Peter White
- 536 Serum Uric Acid Determined by Reversed-Phase Liquid Chromatography with Spectrophotometric Detection

Ernest J. Kiser, George F. Johnson, and David L. Witte

- 541 Serum Chromium and Angiographically Determined Coronary Artery Disease Howard A. I. Newman, Richard F. Leighton, Richard R. Lanese, and Neil A. Freedland
- 545 Gas-Chromatographic Determination of Polyol Profiles in Cerebrospinal Fluid Sharon L. Smith, Milos Novotny, and Emil L. Weber
- 549 A Radioimmunoassay for Nortriptyline (and Other Tricyclic Antidepressants) in Plasma Kay P. Maguire, Graham D. Burrows, Trevor R. Norman, and Bruce A. Scoggins
- 555 Computer-Controlled Instrument System for Sequential Chemical Testing III. Application to Liver Assessment George S. Cembrowski, Frank C. Larson, Robert

W. Huntington, III, Joseph H. Selliken, Jr., and E. Clifford Toren, Jr.

562 New Ultraviolet (340 nm) Method for Assay of Uric

Acid in Serum or Plasma

Ramesh C. Trivedi. Linda Rebar, Kiran Desai, and Linda J. Stong

- 567 Comparison of Double- and Single-Isotope Enzymatic Derivative Methods for Measuring Catecholamines in Human Plasma Marilyn I. Evans, Jeffrey B. Halter, and Daniel Porte,
- Jr.

 571 The "Southmead System," a Simple, Fully-Automated, Continuous-Flow System for Immunoassays. Appendix: Application to Serum Thyroxine Radioimmunoassay

Adel A. A. Ismail, Peter M. West, and David J. Goldie

- 580 Measurement of Sodium in Albumin Solutions with Ion-Selective Electrodes Mysore S. Mohan, Roger G. Bates, John M. Hiller, and Michael J. Brand
- 585 Determination of Serum α-Tocopherol (Vitamin E) by High-Performance Liquid Chromatography André P. De Leenheer, Veerle O. De Bevere, Annie A. Cruyl, and Albert E. Claeys
- 591 Micromethod for Estimating Adenosine Deaminase Activity in Dried Blood Spots on Filter Paper Adam P. Orfanos, Edwin W. Naylor, and Robert Guthrie
- 595 Radioimmunoassay of Calcitonin in the Plasma of Rhesus Monkey and Man Gary K. Hargis, W. Ann Reynolds, Geraid A. Williams, Wanda Kawahara, Bertha Jackson, E. Nelson Bowser, and Roy M. Pitkin
- 602 Evaluation of an Echelle Spectrometer/Image Dissector System for Simultaneous Multielement Determinations by Atomic Absorption Spectroscopy

Hugo L. Felkel, Jr. and Harry L. Pardue

- 611 Characteristics of Statistical Parameters Used to Interpret Least-Squares Results Robert B. Davis, James E. Thompson, and Harry L. Pardue
- 621 Enzymatic Determination of Blood Ethanol, with Amperometric Measurement of Rate of Oxygen Depletion

Frank S. Cheng and Gary D. Christian

- 627 Serum Estradiol-17β as Determined by Mass Fragmentography and by Radioimmunoassay Jiri Zamecnik, D. T. Armstrong, and K. Green
- 631 Evaluation of an Aqueous Fluorometric Continuous-Flow Method for Measurement of Total Urinary Estrogens
 John E. Harmmond, Julius C. Phillips, and John

John E. Hammond, Julius C. Phillips, and Joh Savory

- 635 Analysis for Potassium in Human Erythrocytes by Use of a Standard-Additions Method and an Ion-Selective Electrode Elmer A. Mangubat, Thomas R. Hinds, and Frank F. Vincenzi
- 640 A Technique for Determining the Probability of Abnormality George F. Grannis and John A. Lott
- 652 Free Thyroxine in Serum as Estimated by Polyacrylamide Gel Filtration Lester J. McDonald, Noel I. Robin, and Lewis Sie-
- 657 Simultaneous Liquid-Chromatographic Determination of 12 Common Sedatives and Hypnotics in Serum

Pokar M. Kabra, Howard Y. Koo, and Laurence J. Marton

- 663 Effect of Storage on the Apparent Concentration of Folate in Erythrocytes, as Measured by Competitive Protein Binding Radioassay Esper Mortensen
- 669 Screening for Urinary Oligosaccharides: A
 Quantitative Procedure
 P. Purkiss, R. C. Hughes, and R. W. E. Watts
- 675 Detection and Elimination of Contaminations Interfering with the Determination of Zinc in Plasma

Ekkehard W. Reimold and Deborah J. Besch
681 Determination of Cadmium in Urine by GraphiteFurnace Atomic Absorption Spectroscopy

- Olof Vesterberg and Kent Wrangskogh 686 Time—Concentration Studies by High-Performance Liquid Chromatography of Metabolites Removed During Hemodialysis Eric J. Knudson, Youlan C. Lau, Hans Veening, and
- David A. Dayton

 692 Gas-Chromatographic Determination of Nanogram

 Amounts of Enantiomers of Nortilidine, a Main

 Metabolite of Tilidine, in Biological Specimens

M. Hengy, K.-O. Vollmer, and V. Gladigau

SCIENTIFIC NOTES

698 Improved Technique for Developing Creatine Kinase Isoenzyme Bands by Using a Substrate in Gelatin Matrix
Donald A. G. Mickle, George A. Washington, and

Charles J. Porter

- 700 Carotenoids in the Leukocytes of Carotenemic and Non-Carotenemic Individuals Micheline M. Mathews-Roth
- 702 Albumin Activation of Urinary Amylase as Determined with the Du Pont aca
 Carl C. Garber and R. Neill Carey
- 706 Cross Reactivity of Digitoxin and Spironolactone in Two Radioimmunoassays for Serum Digoxin H. Müller, H. Bräuer, and B. Resch
- 710 Comparative Determination of Phenytoin by Spectrophotometry, Gas Chromatography, Liquid Chromatography, Enzyme Immunoassay, and Radioimmunoassa,

Albert Castro, Joaquin Ibanez, Joseph L. DiCesare, Reginald F. Adams, and Herbert Malkus

- 714 Screening for Urinary Oligosaccharides: Application to a Mentally Handicapped Population and to Patients with Some Other Diseases
- P. Purkiss, R. C. Hughes, and R. W. E. Watts 717 Radioimmunoassay and Radioenzymatic Assay of a New Aminoglycoside Antibiotic, Netilmicin Alan Broughton, James E. Strong, Larry K. Pickering, James Knight, and Gerald P. Bodey

SPECIAL REPORT

720 Provisional Recommendations on IFCC Methods for the Measurement of Catalytic Concentrations of Enzymes. Part 3. Revised IFCC Method for Asparlate Aminotransferase (L-Asparlate: 2-Oxoglutarate Aminotransferase, EC 2.6.1.1) (1977)
H. U. Bergmeyer, M. Hørder, and D. W. Moss

756

762

769

772

778

782

788

793

796

800

804

808 7

0

(

A

5

n

R

C

W

D

u

S

SI

Se

La

L

Er

Kir

832 C

834 C

836 N

821 E

824 P

826 A

828 0

815 /

LETTERS

722 Molybdenum in the Determination of Phospholipids Without Acid Digestion Howard G. J. Worth and Dennis J. Wright

- 722 Source of Error in Use of the Corning 175 Blood Gas Analyzer S. J. Rippin, D. J. Elston, B. C. Fuller, and T. D. Geary
- 722 Stability of Some Antiepileptic Drugs in Plasma
 A. J. Wilensky
- 723 γ-Glutamyttransferase Activity and Bilirubin Concentration
 Anne D. Dickson and Peter R. Beck
- 724 Urinary Enzymes and Renal Transplantation: The Early Warning Controversy
 C. R. R. Corbett, A. E. Thompson, and R. G. Price
- 725 Continuous-Flow Analysis of Cholesterol Digitonide Roger L. Franz
- 726 Sex-Related Differences in the Reference Values for Erythrocytic δ-Aminolevulinic Acid Dehydralase Activity Joseph R. Davis and Michael J. Avram
- 727 Evaluation of a New Radioimmunoassay for Carcinoembryonic Antigen M. Belles-Isles, M. Page, J. Talbot, and J. M. Loiselle
- 727 More on Serum Enzymes in Cancer Patients
 J. P. Persijn and W. van der Slik
- 728 A Report Format for Serum Proteins L. M. Killingsworth
- 729 Situations That Can Lead to Increased Creatine Kinase Isoenzyme BB Activity in Serum C Pascual, R. M. Segura, and S. Schwartz (Reply) Frederick Van Lente and Robert S. Galen
- 730 Low-cost Uroporphyrinogen I Synthase Screening for Acute Intermittent Porphyria David Brocklehurst
- 731 Evaluation of the "Space Stat 20 Ionized Calcium Analyzer"
 L. Larsson and S. Öhman
- 733 BOOK REVIEWS

Robert L. Dryer, Dean S. Skelley, and J. W. Goldzieher

735 THE CLINICAL CHEMIST J. S. King

MAY

- 741 Bis(2-ethylhexyl) Phthalate Concentrations in the Serum of Hemodialysis Patients Larry M. Lewis, Thomas W. Flechtner, Julius Kerkay, Karl H. Pearson, and Satoru Nakamoto
- 747 Micromethod for Determination of Creatinine in Biological Fluids by High-Performance Liquid Chromatography Steven J. Soldin and J. Gilbert Hill
- 751 Negligible Effects of Nonesterified Fatty Acids on Serum Thyroxine Analysis by Competitive Protein-Binding Radioassay on Sephadex and by Radioimmunoassay Nicholas M. Alexander and Miyako Nishimoto

- 756 Evaluation of Fecatest, a New Gualac Test for Occult Blood in Feces Herman Adlercreutz, Kristian Liewendahl, and Pertii Virkola
- 762 On the Kinetics of the Beckman Enzymatic Method for Serum and Urinary Amylase Naomi Quast Hanson and Walid G. Yasmineh
- 769 Urinary Polyamine Excretion During the Menstrual Cycle Siw Österberg, Stina Rosen, and Olle Heby
- 772 Associations with Body Weight of Selected Chemical Constituents in Blood: Epidemiologic Duta Louis Munan, Anthea Kelly, Claude PetitClerc, and Bernard Billion
- 778 High-Performance Liquid-Chromatographic Assay for Chloramphenicol in Biological Fluids Robert L. Thies and Lawrence J. Fischer
- 782 Two-Point Determination of Plasma Ammonia with the Centrifugal Analyzer A. Wayne Bruce, Catherine M. Leiendecker, and Esther F. Freier
- 788 Estimation of Apolipoprotein B in Man by Immunonephelometry
 Fiona C. Ballantyne, John Williamson, David Shapiro, Muriel J. Castake, and Brian Perry
- 793 A Stable Blood Product for pH-Blood-Gas Quality Control Michael C. Steiner, Barry A. Shapiro, John Kavanaugh, John R. Walton, and Wayne Johnson
- 796 Improved Iodination of Peptides for Radioimmunoassay and Membrane Radioreceptor Assay D. Heber, W. D. Odell, H. Schedewie, and A. R. Wolfsen
- 800 Simple, Rapid Method for Determination of Propionic Acid and Other Short-Chain Fatty Acids in Serum Richard F. Hillman
- 804 Simultaneous Detection and Quantitation of Drugs Commonly Involved in Self-Administered Overdoses
- A. T. Howarth and G. Clegg
 Two Immunofluorescent Methods Compared with a Radial Immunodiffusion Method for Measurement

of Serum Immunoglobulins
G. C. Blanchard and Rosalie Gardner

CASE CONFERENCE

815 Acute Pancreatitis, Hyperlipemia, and Normal Amylase Jack H. Ladenson, Jay M. McDonald, David E. Bruns, and John C. Mauck

SCIENTIFIC NOTES

- 821 Evaluation of the JET Technique for Extracting
 Drugs from Urine
 Robert K. Lantz and Richard B. Eisenberg
- 824 Posture and the Composition of Plasma Marian Dixon and Colin R. Paterson
- 826 N-Ethylmaleimide Prevents Destruction of Corticotropin (ACTH) in Plasma Willim Jubiz and George Nolan
- 828 Optimal Conditions and Comparison of Lactate Dehydrogenase Catalysis of the Lactate-to-Pyruvate and Pyruvale-to-Lactate Reactions in Human Serum at 25, 30, and 37 °C Steven N. Buhl and Kathryn Y. Jackson
- 832 Creatine Kinase Isoenzyme Variants in Human Serum Lars Ljungdahl and Willie Gerhardt

834 CORRECTIONS

LETTERS

ay,

uid

on

ro-

by

836 Neonatal Hypothyroid Screen—Other Sources of Error, and Their Elimination Kim Jones and Tjien Oei

- 836 Thin-Layer Chromatography of Phenolic Acids with Use of Toluene Instead of Benzene R. S. Ersser, J. W. T. Seakins, and B. Manraj
- 837 Two-Purpose Antiserum for Radioimmunoassay Lorraine Gonyea-Stewart
- 837 Measuring Aspartate Aminotransferase Activity in Small Sample Volumes Edward A. Carter, Frank Kim, and Lester A. Sodickson
- 838 Cephalosporin Antibiotics Interfere with the Analysis for Theophylline by High-Performance Liquid Chromatography Raymond C. Kelly, Donald E. Prentice, and Gregory M. Hearne
- 839 Serum Enzymes in the Diagnosis of Hepatic Metastalic Carcinoma Peter R. Beck, A. Belfield, R. J. Spooner, L. H. Blumaart, and C. B. Wood
- 839 Serum Haptoglobin Concentrations in "Pure" Iron-Deliciency Anemia Sumitra Dash and K. C. Das
- 840 Formaldehyde Interference with Fiuorescence Determination of Morphine in Urine Z. Joyce Rollen, Adrienne W. Yert, and Larry L. Needham
- 840 "Disappearing" Lipoprotein-X M. R. Ras, S. Masdeu, J. C. Frisón, and J. Rubiés-Prat
- 841 Aspartate Aminotransferase Activity of Some Commercially Available Control Sera, Measured with and without Added Pyridoxal-5-Phosphate Floris J. Burger and Gideon M. Potgieter
- III1 Two Procedures Compared for Determination of Plasma Cholinesterase Activity H. R. Crookshank
- 842 Diurnal Variation of Serum Iron in Normal Individuals
 Rita Long, Kathleen K. Delany, and Lewis Siegel
- 842 More on Gas-Liquid Chromatographic Determination of Homovanillic and VanillyImandelic Acids in Urine from Cases of Neuroblastoma H.-U. Melchert and H. Hoffmeister (Reply)

Marge A. Brewster and D. H. Berry

844 BOOK REVIEWS

Christopher S. Frings, W. N. Griest, Charles D. Scott, and J. Stanton King

847 THE CLINICAL CHEMIST

J. S. King

JUNE

- 853 Multi-Laboratory Comparison of Three Heparin-Mn²⁺ Precipitation Procedures for Estimating Cholesterol in High-Density Lipoprotein John J. Albers, G. Russell Warnick, Donald Wiebe, Paul King, Paula Steiner, Louis Smith, Carl Breckenridge, Anne Chow, Kanta Kuba, Stuarf Weidman, Herman Arnètt, Peter Wood, and Anne Shlagenhaft
- 857 Comparison of Product Moment and Rank Correlation Coefficients in the Assessment of Laboratory Method-Comparison Data P. Joanne Cornbleet and Margaret C. Shea
- 862 Interlaboratory Comparisons of Nickel Analyses in Urine by Atomic Absorption Spectrometry Douglas B. Adams, Stanley S. Brown, F. William Sunderman, Jr., and Hans Zachariasen

- 868 A Preliminary Evaluation of Tissue Polypeptide Antigen in Serum or Urine (or Both) of Patients with Cancer or Benign Neoplasms Celia J. Menendez-Botet, Herbert F. Oettgen, Carl M. Pinsky, and Morton K. Schwartz
- II/3 Enzyme-Coupled Measurement of Ethanol in Whole Blood and Plasma with a Centrifugal Analyzer

G. Jung and G. Férard

- ET7 Atomic Absorption Spectrophotometry of Free Circulating Platinum Species in Plasma Derived from cis-Dichlorodiammineplatinum(II) Steve J. Bannister, Yunik Chang, Larry A. Sternson, and A. J. Repta
- 881 Biochemical Changes in a Porcine Model of Acute Pancreatilis Stanford P. Marenberg, John A. Lott, Brian K. Pflug,
- William E. Kibbey, and Larry C. Carey 805 Maleimide as an Inhibitor in Measurement of Erythrocyte Glucose-6-phosphate Dehydrogenase Activity Jack Deutsch
- 890 Method for Rapid Quantitation and Characterization of Insulin Antibodies Klaus D. Gerbitz and W. Kemmler
- 895 Analysis for Carbamazepine in Serum by Electron-Capture Gas Chromatography Harvey A. Schwertner, Horace E. Hamilton, and Jack E. Wallace
- 900 Heparin-Mn²⁺ Quantitation of High-Density-Lipoprotein Cholesterol: An Ultrafiltration Procedure for Lipemic Samples G. Russell Warnick and John J. Albers
- 905 Isolation of γ-Glutamyltransferase from Human Liver, and Comparison with the Enzyme from Human Kidney Leslie M. Shaw, Jack W. London, and Lorette E. Petersen
- 916 An Interlaboratory Study of Measurement of Aspartate Aminotransferase Activity with Use of Purified Enzyme Materials Carl A. Burtis, Eric J. Sampson, David D. Bayse, Sarah S. McKneally, and Virginia S. Whitner

SCIENTIFIC NOTES

- 927 Some Problems in Development of a High-Performance Liquid Chromatographic Assay to Measure 25-Hydroxyvitamin D₂ and 25-Hydroxyvitamin D₃ Simultaneously in Human Serum
 R. P. Stryd and T. J. Gilbertson
- 931 Cholesterol in High-Density Lipoprotein: Use of Mg²⁺/Dextran Sulfate in its Enzymic Measurement Paul R. Finley, Ronald B. Schifman, R. Jane Williams. and Donald A. Lichti
- 933 Increased Renin Concentration in Plasma and Amniotic Fluid During Storage David J. Craven and E. M. Symonds
- 936 Hemoglobin Electrophoresis at Alkaline pH on Agarose Gels Cyrus A. Lepp and Barry I. Bluestein
- §38 Factors Affecting Measurement of Total Alkaline Phosphatase Activity in Human Serum, Especially Wavelength Accuracy John A. Lott, Kathie Turner, and Jacqueline Scott
- 941 Inter-Batch Quality Differences in Purified Human Profactin Victor S. Fang, Joel Armstrong, and Ian G. Worsley
- 944 A Totally Automated System for Enzyme Immunoassay of Theophylline In Serum Albert Castro, Joaquin Ibanez, Walter Voigt, Thomas Noto, and Herbert Malkus

30th NATIONAL MEETING, AACC

- **947** Scientific Program
- 965 Symposia Lecturers and Abstracts

- 988 Abstracts of Meeting Papers
- 1065 Workshops, Roundtable Discussions, and Exhibitor
- 1073 New Products Review

LETTERS

- 1081 The Problem of "Negative Interference" Associated with Liquid-Liquid Extraction-Derivatization Techniques
 James M. Moore
- 1011 Optimum Photography of Fluorescent Isoenzyme Patterns
- James A. Hathaway and Al Deese
 1081 Further Comments on the Variation of pK':
 Computation of [HCO₃⁻] Independent of pK' and
 Solubility Coefficient
 William H. Austin
- 1082 More on Blood Bicarbonate Measurement Samuel Natelson and Deana Nobel
- 1683 A Modified Retainer for Prolonging Uninterrupted Use of the Oxygen Sensor in the Beckman Glucose Analyzer
- J. S. van den Kamp and G. J. van Stekelenburg
 1083 Effect of Posture of Subject on Reference
 - Values Russell A. Picard
 - (Reply)
 Hanns-Dieter Gruemer and John A. Lott
- 1084 Attempts to Characterize the Fluorescent Compound(s) in Serum of Patlents with Chronic Renal Fallure Adrian O. Vladutiu, Eugene E. Cunningham, and
- Joseph Walshe 1085 Absorbance Change in the Visible Region Should be Reconsidered for Assay of Starch Cleavage by α -Amylases
- Krisna Rungruangsak and Bhinyo Panijpan

 1685 A Clarification on the Corning 175 Blood Gas

 Analyzer
- T. D. Geary 1086 Cross Reactivity of Dihydrodigoxin with a Commercial Digoxin Kit
- Elizabeth Kraus Oge and Patricia A. Polonus 1086 Application of Technicon's SMAC to the Analysis of Amniotic Fluid J. W. Eastman, M. M. Cook, F. A. Gotthardt, and

1088 BOOK REVIEWS

Kent Painter, Irving Sunshine, Kanwal K. Gambhir, and Samuel Meites

1091 THE CLINICAL CHEMIST

J. S. King

T. F. Faria

JULY

- 1095 Bile Acids Measured in Serum during Fasting as a Test for Liver Disease Sverre Skrede, Helge Erik Solberg, Jan Petter Blomhoff, and Egil Gjone
- 1100 125-Radioimmunoassay for Unconjugated Estriol in Serum of Pregnant Women Raymond J. Liedtke, John P. Greaves, Jr., John D. Batjer, and Barbara Busby
- 1105 Biochemical Properties of Tartrate-Resistant Acid Phosphatase in Serum of Adults and Children William K. W. Lam, D. Ted Eastlund, Chin-Yang Li, and Lung T. Yam
- 1109 Rapid Determination of Light Halogenated Hydrocarbons in Urine M. Youssefi, S. D. Faust, and S. T. Zenchelsky

- 1112 Development and Evaluation of a Method for Quantitation of Plasma High-Density-Lipoprotein Cholesterol Evan A. Stein, Paula M. Steiner, Peter S. Gartside, and Charles J. Glueck
- 1116 Enzymic Determination of Cholesterol in Serum Lipoproteins Separated by Electrophoresis Sharon A. Cobb and James L. Sanders
- 1121 Use of a Programmable Desk-top Calculator for the Statistical Quality Control of Radioimmunoassays Stanley F. Cernosek, Jr. and Rose Mary Gutierrez-Cernosek
- 1126 Laboratory Standardization in an International Study: The Kaunas-Rotterdam Intervention Study (KRIS) G. J. M. Boerma, A. Toleikis, A. Mather, C. T. Bartels, L. Margeviciene, I. S. Glasunov, and B. Leiinse
- 1131 Hexosaminidase A in Amniotic Fluid of Tay-Sachs Fetuses Benjamin Geiger, Ruth Navon, and Ruth Arnon
- 1134 Analysis for Cerebrospinal Fluid Proteins by Isoelectric Focusing on Polyacrylamide Gel: Methodological Aspects and Normal Values, with Special Reference to the Alkaline Region Kjell Nilsson and Jar. Edvin Olsson
- 1140 Analysis for Glutathione in Blood by High-Performance Liquid Chromatography Dallas L. Rabenstein and Rolf Saetre
- 1144 Simultaneous Determination of Phosphatidylglycerol and the Lecithin/Sphingomyelin Ratio in Amniotic Fluid George R. Gotelli, Robert E. Stanfill, Pokar M. Kabra, Francis A. Farina, and Laurence J. Marton.
- 1147 Optimized Method for Measuring Aspartate Aminotransferase Activity with the CentrifiChem Analyzer, with Automatic Preincubation of Serum
- Gerhard Ertingshausen, Lydia Amsellem-Winzelberg, Jean-François Richert, and Ryland Davids
 1150 Continuous-Flow Determination of Bile Acids in
- Serum, and Its Clinical Application Fumiko Mashige, Toshiaki Osuga, Naomi Tanaka, Kazuhiro Imai, and Manabu Yamanaka
- 1155 Determination of 8-Methoxypsoralen in Plasma by Scanning Fluorometry After Thin-Layer Chromatography Siba G. Chakrabarti, David A. Gooray, and John
- A. Kenney, Jr.

 1158 Improved Methods for Isolating Cortisol Metabolites from Neonatal Urine
 H. J. G. M. Derks and N. M. Drayer
- 1163 Excretion of X-Prolyl Dipeptidyl-Aminopeptidase in Human Urine as Determined with a New Fluorogenic Substrate Takeshi Kato, Tokiko Hama, Kohichi Kojima, To-
- shiharu Nagatsu, and Shumpei Sakakibara 1167 A Useful Method for Predicting Creatinine Clearance in Children Bruce C. Shull, David Haughey, Jeffrey R. Koup,
- Tadla Baliah, and Philip K. Li

 1170 Simplified Scatchard Plot Assay for Progesterone
 Receptor in Breast Cancer: Comparison with
 Single-Point and Multipoint Assay
 Roy B. Johnson and Robert M. Nakamura
- 1177 Biochemical Characterization of an Aryl Acetto Ester Hydrolase Isolated from Human Monocytes William K. W. Lam, Julia Chen, Edwin Taft, and
- Lung T. Yam

 1182 Analysis for Lead in Undiluted Whole Blood by
 Tantalum Ribbon Atomic Absorption Spectrophotometry
 Bradford L. Therrell, Jr., Joy M. Drosche, and
 Timothy W. Dziuk
- 1186 Evaluation of the Co-Immobilized Hexokinase/ Glucose-6-Phosphate Dehydrogenase Method for Glucose, as Adapted to the Technicon SMAC

Carl C. Garber, Donald Feldbruegge, Richard C. Miller, and R. Neill Carey

128

128

128

128

128

129

129

129

129

129

129

13

13

SCIENTIFIC NOTES

- 1191 Improved Continuous-Flow (SMAC) Determination of Serum Albumin Gitten Cederblad, Brian E. Hickey, Anders Hollender, and Goran Åkerlund
- 1193 A Micro-Scale Method for Liquid Scintillation Counting, Applicable to Radioimmunoassay of Steroids and Substances of Comparable Relative Molecular Mass
- H. E. Grotjan, Jr. and E. Steinberger
 A Solution to the Problem of Bilirubin Interference with the Kinetic Jaffé Method for Serum Creatinine
- iris M. Osberg and Keith B. Hammond

 1198 Analysis for Nickel in Plasma and Urine by
 Electrothermal Atomic Absorption Spectrometry,
 with Sample Preparation by Protein Precipita-
 - Ivar Andersen, William Torjussen, and Hans Zachariasen
- 1202 Effect of Temperature on Plasma Renin Samples Frej Fyhrquist and Liisa Puutula
- 1204 An Aqueous Primary Standard for Use with the Technicon SMA 6/60 R. Michael Balkcom

1206 CORRECTIONS

CASE REPORT

1207 Marked Hyperamylasemia Associated with Carcinoma of the Lung James G. Flood, Conrad Schuerch, Ronald C. Dorazio, and George N. Bowers, Jr.

SPECIAL REPORT

- 1213 Provisional Recommendation on Quality Control in Clinical Chemistry. Part 5. External Quality Control
 - J. Büttner, R. Borth, J. H. Boutwell, P. M. G. Broughton, and R. C. Bowyer
- 1221 The Chemist's Guide to Radioassay Products SECOND EDITION
- 1222 Preface Alan Broughton
- 1223 Introduction
- 1224 Explanation of Kit Guide Table
- 1225 Kit Guide
- 1270 Appendix I: Manufacturers
- 1272 Appendix II: References
- 1275 Appendix III: Troubleshooting Radioligand Assays
 Albert E. Herner and Judith A. Clayton-Hopkins

LETTERS

- 1284 Enzyme Immunoassay Adapted for Use with a Digital Kinetic Analyzer Barbara F. Howell, Robert Schaffer, and Edward A. Sasse
- 1284 Radioimmunoassay Equation Derived
- #285 Automatic Loading of a Centrifugal Analyzer for Enzyme Immunoassays Fred D. Lasky and Arthur Karmen
- 1285 Creatine Kinase Isoenzyme 8B in the Serum of Renal-Disease Patients, Distinct from an Albumin-Like Artifact
- Derry J. Chuga and Paul Bachner 1256 Misinterpretation of Statistical Intercept Values Lee B. Eppstein and Gabor B. Levy
- 1287 Simultaneous Determination of Sialic Acid and Protein in Erythrocyte Membrane from Diabetic Patients Lucile Gerbaut, Danièle de Lauture, Ag. Georges Olive, and Henri Pequignot

- 1288 More Efficient Thin-Layer Chromatography
 H. Harbo Kristensen
- 1288 Microbial Contamination of Automated Analyzers
 Keiichi Naka
- 1288 Rapid Micromethod for Acetaminophen Determination in Serum Marsha Black and Kent Sprague
- 1289 Adenylate Kinase Inhibition by Creatine Phosphate
 R. Michael Balkcom and Eiko Amano
- 1289 Interference with Uric Acid Measurement (Phosphotungstate Method, KDA) by Paraprotein
- Jeffrey Morris, Phyllis Collins, and Leroy Fass 1290 Methyldopa as an Internal Standard for Catecholamine Analysis by Use of High-Performance Liquid Chromatography Leroy D. Mell, Jr., and Anthony B. Gustafson
- #290 Analysis of RadioImmunoassay Data: Polynomial Regression Shirish Shastri, Michael Bright, and Edward Wagman
- 1291 Effect of Temperature and Cortisol on the Distribution of Endogenous Aldosterone in Blood Ronald D. Brown, Rebecca Hegstad, and Max Wisgerhof

1293 BOOK REVIEWS

J. W. Goldzieher and Robert B. Nix

1294 THE CLINICAL CHEMIST

J. S. King

AUGUST

1299 INTRODUCTION

Charles D. Scott, Robert S. Melville, and Donald S. Young

I. ADVANCED CONCEPTS

- #300 Analytical Particle Electrophoresis Applied to Immunologic Research Philip Blume, Arthur Malley, Robert J. Knox, and Geoffrey V. F. Seaman
- 1305 Separation and Analysis of Arylsulfatase Isoenzymes in Body Fluids of Man W. D. Bostick, S. R. Dinsmore, J. E. Mrochek, and T. P. Waalkes
- 1317 High-Performance Liquid-Chromatographic Separation and Fluorescence Measurement of Biogenic Amines in Plasma, Urine, and Tissue Thomas P. Davis, Charles W. Gehrke, Charles W. Gehrke, Jr., Thomas D. Cunningham, Kenneth C. Kuo, Klaus O. Gerhardt, Harold D. Johnson, and Charles H. Williams
- 1325 Quantitative Ultramicro-Scale Immunoenzymic Method for Measuring ig Antigenic Determinants in Single Cells Peter Hösli. Stratis Avrameas. Annès Ulimann.
- Esther Vogt, and Maryvonne Rodrigot
 1331 A Melting-Point-of-Gallium Apparatus for Thermometer Calibration
- Henry E. Sostman and K. Alan Manley

 1335 Multilayer Film Elements for Clinical Analysis:

ic

General Concepts
Henry G. Curme, Richard L. Columbus, Glen M.
Dappen, Thomas W. Eder, William D. Fellows, John
Figueras, Clyde P. Glover, C. A. Goffe, Doyle E. Hill,
William H. Lawton, Edward J. Muka, Jack E. Pinney,

- Royden N. Rand, Karl J. Sanford, and Tai W.
- 1343 Multilayer Film Elements for Clinical Analysis: Applications to Representative Chemical Determinations

Richard W. Spayd, Barbara Bruschi, Brent A. Burdick, Glen M. Dappen, Jon N. Eikenberry, Theodore W. Esders, John Figueras, Charles T. Goodhue, Denise D. LaRossa, Roger W. Nelson, Royden N. Rand, and Tai-Wing Wu

II. ANALYTICAL SYSTEMS

- 1351 Rapid Assessment of isoenzymes by High-Performance Liquid Chromatography Timothy D. Schlabach, Andrew J. Alpert, and Fred
- E. Regnier

 1361 Automated System for Fractionation of Blood Samples

 Norman E. Lee, Richard K. Genung, Wayne F. Johnson, John E. Mrochek, and Charles D.
- 1366 Development and Evaluation of a Glucose Analyzer for a Glucose-Controlled Insulin Infusion System (Biostator®)

Eric J. Fogt, Lawrence M. Dodd, Ellen M. Jenning, and Anton H. Clemens

- 1373 Dual-Column Cation-Exchange Chromatographic Method for β-Aminoisobutyric Acid and β-Alanine in Biological Samples Kenneth C. Kuo, Thomas F. Cole, Charles W.
- Gehrke, T. Phillip Waalkes, and Ernest Borek 1381 Improved Approach to Sequential Addition Immunoassay Fred D. Lasky, Jamil Al Razi, and Arthur Kar-

men Lasky, Jamil Al Razi, and Arthur Kal

III. FUTURE TRENDS IN ADVANCED ANALYTICAL CONCEPTS

- 1386 Determination of Drugs in Plasma by High-Performance Thin-Layer Chromatography David C. Fenimore, Chester M. Davis, and Carol J. Meyer
- 1393 Coupled Reactions of Immobilized Enzymes and Immobilized Substrates: Clinical Application as Exemplified by Amylase Assay Raymond C. Barabino, Don N. Gray, and Melvin H. Keyes
- 1399 Quantitative Cytochemistry: The Basis of Sensitive Bioassays, for Comparison of Bio- and Immuno-reactive Hormone Values
 Lucille Bitensky and J. Chayen
- 1403 Chromatographic Separation and Continuously Referenced, On-Line Monitoring of Creatine Kinase Isoenzymes by Use of an Immobilized-Enzyme Microreactor Mark S. Denton, William D. Bostick, Stan R. Dinsmore, and John E. Mrochek
- 1414 Prospective Applications of Calorimetry in the Clinical Laboratory Nadja N. Rehak and Donald S. Young

LETTERS

- 1420 Timing of Urinalysis Reactions When Reagent Strips Are Used * Diane M. Bereton, Mary E. Sontrop, and C. G. Fraser
- 1421 Saponification of Cholesterol Esters in the Enzymic Cholesterol Method on the SMA 12/60 Sigmar Klose and Helmut Schlumberger
- 1421 Preparation of Saliva Samples for Immunochemical Determinations of Immunoglobulins and for Assay of Lysozyme G. Virella, J. Goudswaard, and R. J. Boackle

- 1422 How Best to Use Computerization of Laboratory Tests?
- E. R. Davis and Paul Pottgen
- 1423 Neonatal Blood Quality Control Program Melvin R. Glick, Carleton D. Nordschow, and Tjien O. Oie
- 1423 Creatine Kinase BB Isoenzyme Activity in Bone-Marrow Serum L. M. Silverman, L. M. Caruso, L. E. Irwin, M. Kitzman, and F. E. Pincus
- 1425 Enzymic Determination of Cholesterol with SMAC Sigmar Klose, Helmut Schlumberger, and Kurt Drobeck
- 1425 Detection of Methaqualone in Human Urine by Radioimmunoassay and Gas-Liquid Chromatography After a Therapeutic Dose Michael J. Kogan, Dennis Jukofsky, Karl Verebey, and S. Joseph Mulé
- 1425 Evaluation of "Sure-Sep II," a Device for Better Separating Serum and Plasma Norman P. Kubasik and Margaret Ricotta

1428 BOOK REVIEWS

Michael Anbar, J. Stanton King, Irving Sunshine, and Bernard H. Berne

1433 THE CLINICAL CHEMIST

J. S. King

SEPTEMBER

- 1439 A Descriptive Study of the Different Electrophoretic Patterns on Agarose of Human Serum Very-Low-Density Lipoproteins P. N. M. Demacker, H. E. Vos-Janssen, A. van't Laar, and A. P. Jansen
- 1445 Application and Comparison of Different Criteria Used for the Diagnosis of Type III Hyperlipoproteinemia P. N. M. Demacker, H. E. Vos-Janssen, P. M. J. Stuyl, R. W. B. Schade, A. P. Jensen, and A. van't
- Laar 1452 Improved Enzymatic Assay of Chloramphenicol
- Arnold L. Smith and David H. Smith

 1458 Micro-Scale Extractive Alkylation Procedure for
 the Gas-Chromatographic Measurement of
 Theophylline in Serum and Saliva, with Use of a
 Nitrogen Detector
 William A. Joern
- 1450 Adrenal Status Assessed by Direct Radioimmunoassay of Cortisol in Whole Saliva or Parotid Saliva Richard F. Walker, D. Riad-Fahmy, and G. F.
- 1464 Radioimmunoassay for Urinary Albumin Jannie Woo, Michael Floyd, Donald C. Cannon, and Barry Kahan
- 1468 Simple Radioimmunoassay of Cortisol In Diluted Samples of Human Plasma T. M. Connolly and P. Vecsei
- 1473 Radioimmunoassay of Methaqualone in Human Urine Compared with Chromatographic Methods
- S. J. Mulé, M. Kogan, and D. Jukofsky

 1477 External Quality-Control Survey of Cholesterol
 Analyses Performed by 12 Lipid Research Clinics
 Kenneth Lippel, Susan Ahmed, John J. Albers, Paul
 Bachorik, Richard Muesing, and Carole Winn

- 1485 Determination of Aluminum in Biological Samples by Atomic Absorption Spectrophotometry with a Graphite Furnace Jay E. Gorsky and Albert A. Dietz
- 1491 Bilirubin—Protein Interactions Monitored by Difference Spectroscopy K. Owen Ash, Mary Holmer, and Carol Sue Johnson
- 1496 Spectrodensitometry of Nanogram Quantities of Cholesterol Joseph C. Touchstone, Murrell F. Dobbins IV, Charlene Z. Hirsch, Anna R. Baldino, and David Kritchevsky
- 1500 Normalized Androgen Ratio: An Index of Free 17β-Hydroxysteroid Concentration in Serum Judith M. Gilliland, Timothy C. Smeaton, and Krystyna Rowland
- 1504 Simultaneous Determination of Serum Cholesterol in High- and Low-Density Lipoproteins with Use of Heparin, Ca²⁺, and an Anion-Exchange Resin

Akio Noma, Keiko Nezu-Nakayama, Masami Kita, and Hiroaki Okabe

- 1509 Liquid-Chromatographic Determination of Serotonin in Serum and Plasma Suleiman Sasa, C. LeRoy Blank, David C. Wenke, and Christine A. Sczupak
- 1515 Fluorometric Determination of Erythrocyte Protoporphyrin in Blood, a Comparison between Direct (Hematofluorometric) and Indirect (Extraction) Methods F. Peter, G. Growcock, and G. Strunc
- 1518 Clinical Analysis of Tamoxifen, an Anti-Neoplastic Agent, in Plasma Douglas W. Mendenhall, Hiroshi Kobayashi, Fong Mei Lee Shih, Larry A. Sternson, Takeru Higuchi, and Carol Fabian
- 1525 Selective Purification of Tartrate-Inhibitable Acid Phosphatases: Rapid and Efficient Purification (to Homogeneity) of Human and Canine Prostatic Acid Phosphatases Robert L. Van Etten and Mohan S. Saini
- 1531 Direct Non-Chromatographic Radioimmunoassay of Aldosterone: Validation of a Commercially Available Kit and Observations on Age-Related Changes in Concentrations in Plasma S. Y. Tan, R. Noth, and P. J. Murlow
- 1534 Comparison of Three Radioligands, Selenium-75, Iodine-125, and Tritium, in the Radioimmunoassay of Methotrexate J. W. Paxton, F. J. Rowell, and G. M. Cree
- 1539 A Fluorogenic Substrate for Angiotensin-Converting Enzyme in Plasma Salvatore F. Russo, Anders V. Persson, and Irwin B. Wilson
- 1543 Analysis for Salicylic Acid in Serum by High-Performance Liquid Chroamtography Doyce Blair, Barry H. Rumack, and Robert G. Peterson
- 1545 Measurement of Free Calcium Ion in Capillary Blood and Serum Niels Fogh-Andersen, Torben Falch Christiansen, Louis Komarmy, and Ole Siggaard-Andersen
- 1553 Plasma Calcium, Copper, Magnesium, and Zinc Concentrations in Patients with the Alcohol Withdrawal Syndrome John D. Bogden and Raymond A. Troiano
- 1557 Creatine Kinase in Serum: 5. Effect of Thiols on Isoenzyme Activity during Storage at Various Temperatures Gabor Szasz, Willie Gerhardt, and Wolfgang Gruber
- 1564 Emergency Procedure for Digoxin Radioassay I. W. Chen, M. Sperling, C. Volle, and H. R. Maxom
- 1558 Blood Intermediary Metabolite and Insulin Concentrations After an Overnight Fast: Reference Ranges for Adults, and Interrelations K. J. Foster, K. G. M. M. Alberti, L. Hinks, B. Lloyd,

- A. Postle, P. Smythe, D. C. Turnell, and R. Walton
- 1573 Gas-Liquid Chromatographic Determination of Bupivacaine and Lidocaine in Plasma Ester Zylber-Katz, Liora Granit, and Micha Levy
- 1576 Improved Thin-Layer Chromatographic Method in the Diagnosis of Mannosidosis Robert B. Friedman, Marcia A. Williams, Hugo W. Moser, and Edwin H. Kolodny
- 1578 New Continuous-Flow Analysis for Simultaneous Determination of Creatinine and Uric Acid in 200 µl of Serum Without Use of a Dialyzer Porntip H. Lolekha, Vivat Chantarothipol, and Aroon Wongvibulsin
- 1586 An "Oncometer" for Clinical Measurement of Colloid Osmotic Pressure of Plasma Jose Bisera, Max Harry Weil, Sybil Michaels, Anthony Bernard, and Bernard Stein
- 1590 Double-Anitbody Enzyme Immunoassay for Nortriptyline M. N. Al-Bassam, M. J. O'Sullivan, E. Gnemmi, J. W. Bridges, and V. Marks
- IS95 Direct Solid-Phase 125I Radioimmunoassay of Serum Cortisol P. Brock, E. W. Eldred, J. E. Woiszwillo, M. Doran, and H. J. Schoemaker
- 1599 Measurement of Chloroprocaine and Procaine in Plasma by Flame Ionization Gas—Liquid Chromatography Randolph H. Smith, Marge A. Brewster, James A. MacDonald, and Dola S. Thompson

CASE CONFERENCE

1603 Theophylline Toxicity Jay M. McDonald, Jack H. Ladenson, John Turk, David N. Dietzler, John Turk, and Noel Weidner

SCIENTIFIC NOTES

- 1609 Use of the Vertical Rotor to Facilitate Estrogen and Progesterone Receptor Analysis Lindsay F. Hofman, Carolyn Moline, Gloria McGrath, and Edward J. Barron
- 1611 An Impurity in the Buffer 2-Amino-2-methyl-1propanol, Which Correlates with Depression of Measured Alkaline Phosphatase Activity J. A. Williamson and J. C. Thompson
- 1614 Semi-Automated Micro-Scale Extraction Apparatus for Assay of Free Fatty Acids in Plasma David S. Schade, George Burke, R. Philip Eaton, and John DeMoss
- 1616 Triiodothyronine Uptake Test in Which Antibody-Coated Tubes Are Used Compared to Two Other Tests in Which Precipitation Separations Are Used
- Walter E. Szpunar and Marshall Block 1618 Quality Control of Measurements of pH, Carbon Dioxide Tension, and Total Carbon Dioxide in Plasma D. J. Savory and J. D. Pryce
- 1620 Enzyme-Coupled Ultraviolet Determination of α-Amylase Activity with the GEMSAEC Centritugal Analyzer William H. Porter and Robert E. Roberts
- 1624 Enzymic Serum Cholesterol Measurement with a Basic AutoAnalyzer and the Du Pont aca Melfod Beniamin Fingerhut
- 1628 Detection of Hemophilia A Carriers by Use of Frozen Plasma Samples Henry C. Yang, Judy Hardin, and Christine Vau-
- 1630 Emergency Gas-Chromatographic Assay of Phenobarbital and Phenytoin and Liquid-Chromatographic Assay of Theophylline 7 K Shihabi
- 1634 Performance Comparison of the Corning Thin-Film Agarose and the Hyland Thick-Film Agar Methods for Immunoelectrophoresis Benjamin Gerson, James LaBrie, and Bradley E. Copeland

1636 Spurious Brain Creatine Kinase in Serum from Patients with Renal Disease R. B. Coolen, R. Herbstman, and P. Hermann

17

17

17

17

17

17

17

17

17

17

- 1639 An Improved Technique for Immunofixation of Electrophoretograms

 Hannu H. Karinkanta and Erkki J. Nieminen
- 1642 Emergency Determination of Acetaminophen John M. Meola
- 1644 Kinetic Measurement of α -Amylase with a Centrifugal Analyzer Mariet losefsohn and Jocelyn M. Hicks

HISTORY

1647 A History of the Cleveland Section, AACC J. Waide Price and Roger W. Marsters

LETTERS

- 1650 Evaluation of Commercially Obtainable Ferritin Test Kit in Relation to the High-Dose Parabolic Phenomenon Philip K. Li, James R. Humbert, and Chao-Shing Chenq
- 1651 Measurement of the Various Forms of Bilirubin in Serum
 Sophia Athanassiadis
 (Reply)
 Richard B. Passey
- 1652 Zinc Contamination in a Trace-Element Control Serum Nadine Urquhart
- 1653 Alcoholic Myopathy and Changes in Serum Enzyme Activity
 Thomas V. DiSilvio
- 1653 Kit Vendors: Make the Purchaser Aware of Compromises
 C. Michael O'Donnell and Denis O. Rodgerson
- 1654 Creatine Kinase Isoenzymes in Serum of Patients with Cancer of Various Organs Gordon N. Hoag, Christopher R. Franks, and W. Earle DeCoteau

BOOK REVIEWS

1655 Bernadette H. Bourne, Elizabeth B. Solow, Michael Turner, and Edward C. Knoblock

THE CLINICAL CHEMIST

1658 J. S. King

OCTOBER

- 1663 REVIEW: Quantitative Metabolic Profiling Based on Gas Chromatography Stephen C. Gates and Charles C. Sweeley
- 1674 Aut mated Metabolic Profiling of Organic Acids in Human Urine. I. Description of Methods Stephen C. Gates, Nancy Dendramis, and Charles C. Sweeley
- 1680 Automated Metabolic Profiling of Organic Acids in Human Urine. II. Analysis of Urine Samples from "Healthy" Adults, Sick Children, and Children with Neuroblastoma Stephen C. Gates, Charles C. Sweeley, W. Krivit, D. DeWitt, and B. E. Blaisdell
- 1690 Kinetics of the Reactions of Unconjugated and Conjugated Bilirubins with ρ-Diazobenzenesulfonic Acid John B. Landis and Harry L. Pardue
- 1700 Evaluation of a Kinetic Method for Simultaneous
 Determination of Conjugated and Unconjugated
 Bilirubin
 John B. Landis and Harry L. Pardue

1708 Simple Method for Estimating Glycosylated Hemoglobins, and Its Application to Evaluation of Diabetic Patients Jingshyen Chou, C. Andrew Robinson, Jr., and

Abraham L. Siegel

1711 Evaluation of a Glassy-Carbon Electrode for Amperometric Detection of Selected Methylxanthines in Serum After Their Separation by Reversed-Phase Chromatography Eugene C. Lewis and Dennis C. Johnson

1720 Negative-Ion Mass Spectrometry of Amphetamine Congeners Yvonne Marde and Ragnar Ryhage

- 1724 Enzymic Fluorometric Continuous-flow Assays for Blood Glucose, Lactate, Pyruvate, Alanine, Glycerol, and 3-Hydroxybutyrate Barbara Lloyd, Jacqueline Burrin, Patricia Smythe, and K. G. M. M. Alberti
- 1730 Enzymic Micro-Assay for Blood Glutamine Andre Stahl, Alice Frick, Marc Imler, and Jean-Louis Schlienger
- 1734 Measurement of Three Aminoglycoside Antibiotics with a Single Radioimmunoassay System C. Dennis Ashby, John E. Lewis, and Jerald C. Nelson
- 1738 Thyroid Hormone Contamination in Crystalline Diiodotyrosine Nicholas M. Alexander and Miyako Nishimoto
- 1740 High-Performance Liquid-Chromatographic Determination of Free Nicotinic Acid and Its Metabolite, Nicotinuric Acid, in Plasma and Urine Nikolaus Hengen, Volker Seiberth, and Michaela Hengen
- 1744 Determination of a Trivariate Reference Region for Free Thyroxine Index, Free Triiodothyronine Index, and Thyrotropin from Results Obtained in a Health Survey of Middle-aged Women Bertil Kagedal, Arne Sandstrom, and Gunnar Tibbling
- 1751 Modified Erythrocyte Uroporphyrinogen I Synthase Assay, and Its Clinical Interpretation Michael W. Piepkorn, Peggy Hamernyik, and Robert F. Labbe
- 1755 Neonatal Thyroxine Screening by Use of a Single-Tube Solid-Phase Radioimmunoassay Ann Barbieri Bell and Larry H. Coleman
- 1759 Increased D-Glucaric Acid Excretion by Jaundiced Patients

 Mala Herzberg and Meir Henry Wiener
- 1762 Is Serum Cholinesterase Activity a Predictor of Succinyl Choline Sensitivity? An Assessment of Four Methods R. T. Evans and Janet Wroe
- 1767 Use of Polyethylene Glycol in Radioimmunoassay of Human Placental Lactogen Clifford L. Ermsbar and David J. Gusseck
- 1770 Non-equilibrium Enzyme Immunoassay of Gentamicin
 Bo Mattiasson, Karin Svensson, Carl Borrebaeck, Svante Jonsson, and Goran Kronvall
- 1774 Improved Micromethod for Determination of Underivatized Clonazepam in Serum by Gas Chromatography Peter M. Edelbroek and Frederik A. De Wolff

as

1-

it.

ıl-

- 1778 Effects of Bilirubin on Detection of Hydrogen Peroxide by Use of Peroxidase David L. Witte, Linda F. Brown, and Ronald D. Feld
- 1783 Characterization of the Principal Human Prostatic Acid Phosphatase Isoenzyme, Purified by Affinity Chromatography and Isoelectric Focusing. Part II Pirkko Vihko
- 1788 Chemical and Immunochemical Measurement of Total Iron-Binding Capacity Compared Gregory J. Buffone, Susan A. Lewis, Mariet Iosefsohn, and Jocelyn M. Hicks
- 1792 A Method of Assessing Serum Triiodothyronine Concentrations That Is Independent of Subject's

- Age and Variations in Concentrations of Binding Proteins in Serum Richard Mardell and Marion Gerson
- 1797 Intertaboratory Comparison of Lead and Cadmium in Blood, Urine, and Aqueous Solutions Poul-Erik Paulev, Poul Solgaard, and Jens Christian Tiell
- 1801 A Sensitive Manual Enzyme Immunoassay for Thyroxine Roy F. Schall, Jr., Alan S. Fraser, Herbert W.
- Hansen, Carl W. Kern, and Hal J. Tenoso
 1805 Column-Chromatographic Separation of Isoenzymes of Aspartate Aminotransferase
 Eric J. Sampson, Sheryl A. Miller, Sarah S.
 McKneally, Virginia S. Whitner, W. Harry Hannon,
 and Carl A. Burtis
- 1813 Immobilized-Enzyme Nylon-Tube Reactor for Routine Determination of Uric Acid in Serum P. V. Sundaram, M. P. Igloi, R. Wassermann, and W. Hinsch
- SCIENTIFIC NOTES
 Increased Creatine Kinase Isoenzyme MB Values
 in Patients without Myocardial Infarct
 Leslie M. Shaw and David A. Newman
- 1821 Gas-Liquid Chromatographic Microdetermination of Underivatized Ethosuximide (α-Ethyl-α-Methyl Succinimide) in Plasma or Serum A. J. Fellenberg and A. C. Pollard
- 1823 Drug Screening by Enzyme Immunoassay with the American Monitor KDA J. Richard Pearson
- 1825 A Non-Barbital Buffer for Immunoelectrophoresis and Zone Electrophoresis in Agarose Gels James F. Monthony, Eric G. Wallace, and Diane M. Allen
- 1828 Distribution of Thioridazine and Its Metabolites in Human Tissues and Fluids Obtained Postmortem E. C. Dinovo, R. O. Bost, I. Sunshine, and L. A. Gottschalk
- 1830 Plasma Estriol vs. Estrogen Assays in 24-h Urines as an Index to Fetal Status Lorraine S. Kirkish, Mel L. Barclay, Juan B. Parra, Alan A. Compton, and Daisy S. McCann
- 1833 Reduced-Volume Radioimmunoassays for Parathyrin and Calcitonin in Serum, for Use in Pediatric and Small-Animal Studies Hunter Heath III and Francis P. DiBella
- 1835 Alternative Mechanized Method for Analysis for Inorganic Phosphate without Reduction Norman B. Roberts
- 1838 Simultaneous Gas-Chromatographic Analysis for Diazepam and Its Major Metabolite, Desmethyldiazepam, With Use of Double Internal Standardization David J. Greenblatt
- 1841 Modified Jendrassik—Grof Method for Bilirubins Adapted to the Abbott Bichromatic Analyzer Leonard Mori
- 1845 CORRECTIONS

LETTERS

- 1846 Improved Enzymic Uric Acid Determination
 R. Haeckel
- 1846 Improved Micro-Scale High-Pressure Liquid-Chromatographic Assay of Gentamicin in Plasma Win L. Chiou, Roger L. Nation, Geoffrey W. Peng, and Shie-Mei Huang
- 1847 Cephalosporin Antibiotic Interference with Analysis for Theophylline by High-Performance Liquid Chromatography C. A. Robinson, Jr., Blanche Mitchell, John Vasiliades, and A. L. Siegel
- 1847 A Useful Modification to the Colorimetric Assay of Inorganic Phosphorus and Alkaline Phosphatase in Serum G. B. Pawar, N. K. Todai, and M. B. Jaffar
- 1848 Is There A High-Affinity Estrogen Binder in Human Serum?

- F. Thomas Algard, Gino A. Montessori, Johannes P. van Netten, and Maureen Munn
- 1849 Albumin-bound Fluorescence: A Potential Source of Error in Fluorometric Assay of Creatine Kinase B8 Isoenzyme H. Aleyassine and D. B. Tonks
- 1850 Erroneous Temperature Corrections for Blood pH and Gas Measurements Robert W. Burnett
- 1850 A Case of Isolated Increase in Serum Alkaline Phosphatase Activity liaz Ahmad
- 1851 Negligible Effect of Bilirubin on Serum Creatinine Measurement by the Kinetic Jafté Method David R. Knight and Thomas D. Trainer
- 1852 Standardization of Cerebrospinal Fluid Protein Determined with the Du Pont aca Joseph Pecci and Thomas J. Giovanniello
- 1853 Chromatographic Behavior of 3-Hydroxyquinidine William G. Crouthamel, Benjamin Kowarski, and Prem K. Narang
- 1853 Creatine Kinase Isoenzyme BB Increases in Serum After Cardiac Surgery
- Mark H. Zweig and André C. Van Steirteghem 1853 Normal Values for Urinary 3-Methoxy-4-hydroxymandelic Acid (VMA) in Children R. E. Haymond, J. A. Knight, and A. C. Bills
- 1854 Variation of Trace Binding in Digoxin Radioimmunoassay by Use of 1251-Labeled 3-O-Succinyl-Digoxigenin: Relation of Thyroxine Concentration to Binding Martin R. Lohff and Mitchel D. Bauman
- 1854 Improved Gas-Chromatographic Analysis for Anticonvulsants Thomas E. Hewitt, Diana L. Sievers, and Gerald Kessler
- 1856 Evaluation of the Space Stat 30 Sodium/Potassium Ion Analyzer Shanta Patal and P. O'Gorman
- 1857 Detection of Bovine Serum Albumin Interference in Radioimmunoassay Systems Mark R. Shearer, Franklin M. Thomas, and Jennifer A. Bonig (Reply)
- Roger Keller 1858 Evaluation of a New Creatine Kinase Reagent for Use with the Abbott ABA-100 Robert C. Elser

1859 BOOK REVIEWS

H. R. Crookshank, Donald Oberlear, Donald S. Young, J. W. Goldzieher, Samuel Meites, Nathan Radin, and Adrian Hainline, Jr.

1863 THE CLINICAL CHEMIST

NOVEMBER

- 1869 REVIEW: Steroid Immunoassay in Clinical Chemistry J. J. Pratt
- 1891 Estimation of Free Trilodothyronine in Serum: A New Method and Its Clinical Relevance Lewis Siegel, Lester J. McDonald, and Noel I. Robin
- 1895 Additive, Multiplicative, and Mixed Analytical Errors Mario Werner, Samuel H. Brooks, and Lancaster B. Knott
- 1899 Mass-Fragmentographic Determination of Catecholamine Metabolites in Amniotic Fluid and its Possible Clinical Usefulness

- Frits A. J. Muskiet, Hans J. Jeuring, Gijs T. Nagel, Henk W. A. de Bruyn, and Bert G. Wolthers
- IBO3 Enzyme Immunoassay for Gentamicin J. C. Standefer and George C. Saunders
- 1908 New Enzymatic Method for Serum Uric Acid at 500 nm Ramesh C. Trivedi, Linda Rebar, Eileen Berta, and
- Linda Stong
 1912 Bisalbuminemia. A New Molecular Variant, Albumin Vancouver Jiri Frohlich, Joanne Kozier, Donald J. Campbell,
- June V. Curnow, and Andras L. Tarnoky 1915 Serum Prostate-Specific Acid Phosphatase: Development and Validation of A Specific Radioimmunoassay

Pirkko Vihko, Esko Sajanti, Olli Janne, Leena Peltonen, and Reijo Vihko

- 1920 Simultaneous Determination of Retinol and Retinyl Esters in Serum or Plasma by Reversed-Phase High-Performance Liquid Chromatography M. G. M. DeRuyter and A. P. De Leenheer
- 1924 A Water-Soluble Cholesterol Derivative for Use in Augmenting Serum Control Materials Gary J. Proksch and Dean P. Bonderman
- 1827 Radioenzymatic Assay of DOPA (3,4-Dihydroxyphenylalanine) Garland A. Johnson, Joann M. Gren, and Rosemary Kuplecki
- 1931 Standardization of the Coomassie Blue Method for Cerebrospinal Fluid Proteins Jerome A. Johnson and John A. Lott
- 1934 Proteinuria: Accuracy and Precision of Laboratory Diagnosis by Dip-Stick Analysis Gordon P. James, David E. Bee, and John B. Fuller
- 1940 High-Performance Liquid-Chromatographic Assay of Aminoglycoside Antibiotics in Serum John P. Anhalt and Steven D. Brown
- 1948 High-Performance Liquid-Chromatographic Simultaneous Determination of Commonly Used Tricyclic Antidepressants Henning F. Proelss, Herman J. Lohmann, and Daniel G. Milies
- 1954 A One-Tube Micromethod for Radioimmunoassay of Plasma Cortisol Graham Ellis and Raymond Morris
- 1958 Modification of the Choriogonadotropin Beta-Subunit Radioimmunoassay for Determination of Urinary Choriogonadotropin Jill McCready, Glenn D. Braunstein, Douglas Helm,
- and Maclyn E. Wade

 1952 Serum Ionized Calcium and Corrected Total

 Calcium in Borderline Hyperparathyroidism

 Lasse Larsson and Sten Ohman
- 1966 Effect of In Vitro Hemolysis on Chemical Values for Serum. Joseph J. Frank, Edward W. Bermes, Margaret J. Bickel, and Bruce F. Watkins
- 1971 Aspartate Aminotransferase Activity and Isoenzyme Proportions in Human Liver Tissues Robert Rej
- 1980 Rational Basis for Foam-Stability Assays of Amniotic Fluid Surfactant Dennis E. Freer, Bernard E. Statland, and Geoffrey
- 1965 Isoenzyme Distribution of Creatine Kinase and Lactate Dehydrogenase in Serum and Skeletal Muscle in Duchenne Muscular Dystropny, Collagen Disease, and Other Muscular Disorders Walld G. Yasmineh, Guirguis A. Ibrahim, Majid Abbasnezhad, and Essam A. Awad
- 1990 Serum Galactose Determination with Centrifugal Analyzers Michel Gabrielli
- 1995 Trace Elements in Scalp-Hair of Persons with Multiple Sclerosis and of Normal Individuals Douglas E. Ryan, Jiri Holzbecher, and D. Craig Stuart
- 2001 Determination of 3-Methoxy-4-hydroxyphenylpyruvic Acid, 3,4-Dihydroxyphenylethylene Glycol,

- and 3,4-Dihydroxyphenylmandelic Acid in Urine by Mass Fragmentography, with Use of Deuterium-Labeled Internal Standards
- Frits A. J. Muskiet, Dineke C. Fremouw-Ottevangers, Gijs T. Nagel, Bert G. Wolthers, and Jacques A. de Vries
- 2009 Copper Coproporphyrin Excretion in Familial Coproporphyria Robert E. Carlson, D. Dolphin, and Melvyn Bernstein

SCIENTIFIC NOTES

- 2013 Relative Merits of Two Electrophoretic and Two Column-Chromatographic Kits for Determining Serum Creatine Kinase Isoenzyme MB Activity Clive Hamiin and Edward Ackerman
- 2018 Continuous-Flow Enzymic Method Evaluated for Measurement of Serum Triglycerides with Use of an Improved Lipase Reagent Karen Whitlow and Nathan Gochman
- 2020 Enzyme Immunoassay and Gas-Liquid Chromatography Compared for Determination of Lidocaine in Serum B. E. Pape, R. Whiting, K. M. Parker, and R.
- Milita
 Measurement of Plasma Nortriptyline Concentrations: RadioImmunoassay and Gas-Chromatography Compared

J. D. Robinson, R. A. Braithwaite, and S. Dawling

- 2026 Manual and Centrifugal Analyzer Determination of Cholesterol and Triglycerides with Single-Vial Enzymatic Reagents Michael J. Peake, Mary E. Sontrop, and Callum G. Fraser
- 2031 Mechanized Micro-scale Determination of Protein In Platelet Pellet Sonicates Agnes C. Haff
- 2033 Immobilized-Enzyme Membrane Sandwich Reactor Used in Automated Micro-scale Assay of Plasma Uric Acid P. Kamoun and O. Douay
- 2036 Continuous-Flow Analysis for Serum Albumin, by Use of the Immediate Reaction with Bromcresol Green

Charles J. Plesher

- 2039 Effect of Diluent Temperature on Creatine Kinase Values Found for Lyophilized Controls and Reference Sera Ronald D. Feld, Linda F. Brown, Bruce P. Neri, and David L. Witte
- 2042 Should Blood Samples for Assay of Plasma Renin Activity Be Chilled?
- Rodica L. Emanuel and Gordon H. Williams 2044 Enzymatic Determination of Plasma Ammonia: Evaluation of Sigma and BMC Kits Munir Pesh-Imam, Satyendra Kumar, and Charles E. Willis
- 2047 Radioimmunoassay of Serum Myoglobin: Evaluation and Modification of a Commercial Kit and Assessment of its Usefulness for Detecting Acute Myocardial Infarction

Norman P. Kubasik, William Guiney, Karen Warren, John P. D'Souza, H. E. Sine, and Bernard B. Brody

PROPOSED SELECTED METHOD

2050 Measurement of Chloride in Sweat with the Chloride-Selective Electrode W. J. Warwick and L. Hansen

CASE REPORT

2054 Creatine Kinase Isoenzyme of High Retative Molecular Mass in Serum of a Cancer Patient Hojyo Yuu, Yasushi Takagi, Osamu Senju, Junichiro Hosoya, Kunihide Gomi, and Toru Ishii

HISTORY

2056 History of the North Carolina Section, AACC Robert L. Habig

LETTERS

2051 Test Precision and High-Density-Lipoprotein Cholesterol Jack M. Goldberg (Reply) James M. Gamblin 2108

2115

2125

2132

2135

2139

2145

2151

2155

2158

2161

2166

2168

2170

2172

- 2051 Results by the Phadebas Amylase Test for Human Sera in the Presence and Absence of Albumin J. C. M. Hafkenscheid
- 2062 Pitfalls of Use of Lipemic Serum with the Technicon SMAC and Du Pont aca
 F. R. Hindriks and A. Groen
- 2063 Another Source of Contamination from Blood-Sample Containers A. W. Missen and S. A. Gwyn
- 2064 Detection of Septicemia by the "Shot-Gun" Method for Assaying Creatine Kinase Isoenzyme MB in Serum John Y. Kiyasu
- 2065 Specificity of Quinidine Determination Methods Theodor W. Guentert and Sidney Riegelman
- 2066 Determinations of ionized Calcium with the Orion SS-20 and AMT Electrion Auto Compared Hans F. Loken, Sara B. Arnaud, and Selwyn J. Rehfeld
- 2055 Comparison of Agarose and Polyacrylamide Techniques for Lipoprotein Electrophoresis John W. Eastman and Jackson R. Pelton
- 2065 A Fast-Migrating Alkaline Phosphatase Band Swei H. Tsung
- 2068 Lecithin: Cholesterol Acyltransferase Response to Dietary Cholesterol Loading Howard C. Elliott
- 2059 Hydroxy-Hemopyrrolenone, not Kryptopyrrole, in the Urine of Schizophrenics and Porphyrics D. G. Irvine
- 2070 Higher Values for Ionized Calcium with a New Type of Electrode for Orion SS-20 Sten Öhman and Lasse Larsson (Reply) Leslie Demetriou
- 2071 Azide Interference with Bilirubin Procedures Using Diazotized Sulfanic Acid (Ehrlich's Reagent) John Eckfeldt, Esther Freier, and Catherine Leiendecker
- 2072 Research by Members of the American Association for Clinical Chemistry, 1972–1976 Eugene W. Rice
- 2073 Evaluation of a Glycohemoglobin Kit Douglas Cix, Patricia Cohen, Sheila Kingsley, Joyce Senkbeil, and Karen Sexton
- 2073 Blood-Collecting Tube as a Contamination Source in Vitamin E Fluorometry
 A. J. Sinclair and W. Slattery

2075 BOOK REVIEWS

J. Stanton King, J. W. Goldzieher, and David C. Hohnadel

2077 THE CLINICAL CHEMIST J. S. King

DECEMBER

- 2081 REVIEW: Relation of Hypertension, Lipids, and Lipoproteins to Atherosclerosis Lena A. Lewis and Herbert K. Naito
- 2099 An Improved Enzyme Immunoassay for Progesterone in Human Piasma Brian G. Joyce, Douglas W. Wilson, Graham F. Read, and Diana Riad-Fahmy
- 2103 Effect of Membrane Potential on Dialysis of Calcium in a Continuous-Flow System Michael J. Staley and Ian Farrance

- 2108 On the Biosynthesis of Guanidinosuccinate Samuel Natelson, Hsiu-Yu Tseng, and John E.
- 2115 Automated Development of a Kinetic Method for the Continuous-Flow Determination of Creatimine

Ad S. Olansky and Stanley N. Deming

- 2125 Evaluation of a New Multichannel Analyzer, "Astra-8" Paul R. Finley, R. Jane Williams, Donald A. Lichti, and A. Cole Thies
- 2132 Improved Liquid Chromatographic Determination of Placental Estriol in Urine George R. Gotelli, Jeffrey H. Wall, Pokar M. Kabra. and Laurence J. Marton
- 2135 Interlaboratory Comparison of Results of Erythrocyte Protoporphyrin Analysis Kenneth W. Jackson
- 2139 Assay of an Antitumor Protein, Neocarzinostatin, and Its Antibody by Fluorescence Polarization Hiroshi Maeda
- 2145 An Enzymatic Radioassay for Gentamicin Richard V. Case and Louis M. Mezei
- 2151 Atomic Absorption Spectrophotometry of Chromium in Serum and Urine with a Modified Perkin-Elmer 603 Atomic Absorption Spectrophotometer Frederick J. Kayne, G. Komar, H. Laboda, and Raymond E. Vanderlinde

2155 Radioimmunoassay for Urinary Lysozyme in **Human Serum from Leukemic Patients**

Theo L. Peeters, Yvan R. Depraetere, and Gaston

R. Vantrappen 2158 Polystyrene Tube Immunoradiometric Assay for Human a1-Fetoprotein, and Its Use for Mass Screening

André Grenier, Jean Morissette, Jean-Paul Valet, and Luc Belanger

2161 The 4-Hydroxybenzoate/4-Aminophenazone Chromogenic System Used in the Enzymic Determination of Serum Cholesterol Franco Meiattini, Lorenzo Prencipe, Fabrizio Bardelli, Giuliano Giannini, and Paolo Tarli

SCIENTIFIC NOTES

- 2166 High-Performance Liquid Chromatography of Quinidine in Plasma, with Use of a Microparticulate Silica Column Michael A. Peat and Thomas A. Jennison
- 2168 Anion-exchange Chromatography of Erythrocytic and Muscle Adenylate Kinase and Its Effect on the Serum Creatine Kinase Isoenzyme Assays Bernard Klein and Carol Lynne Jeunelot

2170 Interference by Tubing Material in Continuous-Flow Systems E. B. M. de Jong, H. M. J. Goldschmidt, J. A. Loog,

and A. C. C. M. van Alphen

2172 Modified Micro-Scale Enzymatic Method for Plasma Ammonia in Newborn and Pediatric Patients; Comparison with a Modified Cation-Exchange Procedure James Wu, K. Owen Ash, and Elaine Mao

- 2176 Radial Diffusion Assay of NAD- and NADP-**Dependent Oxidoreductases** Jason C. H. Shih and E. P. Teulings
- 2178 Non-Chromatographic Screening Test for Hyperprolinemia Yoshihisa Yamaguchi
- 2180 High-Density Lipoproteins Estimated by an Enzymatic Cholesterol Procedure, with a Centrifugal Analyzer K. Owen Ash and Wayne M. Hentschel
- 2154 Analytical Precautions in Measurement of Blood Cyanide
- E. Lee Rodkey and Robert F. Robertson 2186 Results with Commercial Radioassay Kits Compared with Microbiological Assay of Folate

in Serum and Whole-Blood Evelyn L. McGown, C. M. Lewis, M. H. Dong, and H. E. Sauberlich

2192 Comparison of Radioassay and Microbiological Assay for Serum Folate, with Clinical Assessment of Discrepant Results Lynn Baril and Ralph Carmel

2195 Microchromatographic Methods for Hemoglobin A₂ Quantitation Compared Effie M. Brosious, Jane M. Wright, Rosalie M. Baine, and Robert M. Schmidt

2199 Kinetic Centrifugal Analyzer and Manual Determination of Serum Urea Nitrogen, with Use of o-Phthaldialdehyde Reagent Stanley S. Levinson

2202 CORRECTIONS

LETTERS

- 2206 Specificity of Creatine Kinase MB Isoenzyme for Myocardial Injury A. Marmor and G. Alpan
- 2208 Artifacts in Manganese/Tris(hydroxymethyl)aminomethane Solutions
- William D. Hobey and Judith A. Prybyla 2207 Further Comments on Estimating Choriogonadotropin in Serum
- James H. McBride and Khai Truong 2207 Activity of Asid Phosphatase in Infancy and Childhood Peter M. Bayer, Wilfried Unger, Thomas W. J.
- Gergely, and Franz Gabl 2208 Acetazolamide Interference with Theophylline Analysis by High-Performance Liquid Chromatography
 - C. A. Robinson, Jr. and Joel Dobbs
- 2209 Lithium Anyone? Joseph J. Saady
- 2209 Evaluation of Tests for Fecal Occult Blood Henry J. Wells (Reply)

Herman Adlercreutz, Kristian Liewendahl, and Pertti Virkola

2210 Evaluation of Calbiochem-Behring Corp. Triglycerides S.V.R.TM (Single Vial Reagent) Ralph P. McCroskey

- 2210 Consequences of Testing Liver Function Timothy C. Durbridge (Reply)
- Frank C. Larson and E. Clifford Toren, Jr. 2212 First Impressions of the New Phadebas Amylase Test with Albumin K. Wiener and C. H. Foot
- 2213 Determination of Spinal Fluid Glutamine with the Du Pont aca John J. Moore, Sylvan M. Sax, and Arthur B. Blackburn, Jr.
- 2214 Economical Single Cellulose Acetate/Plastic Sandwich for Developing and Scanning CPK/LDH Isoenzymes Daisy Kattan
- 2214 Use of the Albumin/Globulin Ratio in Differentiation between Bone and Liver Isoenzymes of **Alkaline Phosphatase** D. Fraser Davidson
- 2215 Inhibition of γ-Glutamyltransferase: Influence of Instrumental Error Liv Theodorsen and J. H. Strømme
- 2217 Extraction of Kober Chromogen into Tetrachloroethane Containing Trichloroacetic Acid in Determination of Urinary Estrogens During Preg-N. Y. Jack Yang, Lilian M. Ewen, Michael E. J.

Vince, and Ralph W. Spitzer

2217 Re-use of Enzyme Reagent and Elimination of Air-Piston Pipettes with the Beckman Glucose Analyzer Philip K. Li, Gordon T. Tracz, and Gregory M. Bock (Reply) W. T. Ryan

2219 BOOK REVIEWS

Stephen G. Weber, William C. Purdy, and Arthur Wainer

2220 INVITED REVIEWERS 1978

2223 THE CLINICAL CHEMIST J. S. King

> **ANNUAL INDEX, Volume 24,** 1978

- 2229 Contents
- 5546 Author Index
- 2249 Subject Index

Journal of the American **Association for Clinical Chemistry**

climical chemistry

VOLUME 24, 1978

AUTHOR INDEX

Abarca, Surigenia D. See Walsh, Philip R.;

Wang, Ming-Chung
Abbasnezhad, Majid See Yasmineh, Walid G.
Abraham, E. C.; Huff, T.; Cope, N. D.; Wilson,
J. B., Jr.; Bransome, E.; Huisman, T. H. J.

394 Abrahams, Irving See Tria, Michael Ackerman, Edward See Hamlin, Clive Adams, Douglas B.; Brown, Stanley S.; Sunderman, F. William, Jr.; Zachariasen,

Adams, Douglas B.; Brown, Stanley S.;
Sunderman, F. William, Jr.; Zachariasen,
Hans, 862
Adams, Reginald F. See Castro, Albert;
Vandemark, F. L.
Adlercreutz, Herman See Wells, Henry J.
—; Liewendahl, Kristian; Virkola, Pertti, 756
Adolf, Paul K.; Hoskin, Somsong P., 1015
Akerlund, Goran See Cederblad, Gitten
Ahmad, Jiaz, 1850
Ahmed, Sue; Lippel, Kenneth; Bachorik, Paul;
Albers, John J.; Williams, Jackie; Cooper,
Gerald, 330
Ahmed, Susan See Lippel, Kenneth
Albers, John J.; Williams, Jackie; Cooper,
Gerald, 330
Ahmed, Susan See Lippel, Kenneth
Albers, John J.; Warnick, G. Russell; Wiebe,
Donald; King, Paul; Steiner, Paula; Smith,
Louis; Breckenridge, Carl; Chow, Anne, 853
Aisenfeld, R. See Bonderman, P. W.
Akamatsu, A. See Wada, M.
Akerkar, Anand See Black, Elliott
—; Hoholick, Mary; Block, Elliott
—; Hoholick, Mary; Block, Elliott
—; Gutcho, Sidney; Mansbach, Lillian; Butt,
Abdul, 1029
Akers, E. See Kwak, Y. S.
Akins, J. R. See Cooper, G. R.
Alaupovic, Petar See Curry, Michael D.
Al-Bassam, M. N.; O'Sullivan, M. J.; Gremmi,
E.; Bridges, J. W.; Marks, V., 1590
Albers, John J. See Ahmed, Sue; Lippel,
Keneth; Warnick, G. Russell
Albert, Jerry; Geller, Jack; Stoeltzing, Woods;
Loza, Debra, 1044
Alberti, K. G. M. M. See Foster, K. J.; Lloyd,
Barbara
Albertson, Daniel F. See McKiel, Robert R.

Barbara Albertson, Daniel F. See McKiel, Robert R. —; Ali, Nabil, 988
Albro, Phillip W. See Luster, Michael I. Alcock, N. W.; Kelsen, D. P.; Young, C. W., 1688

Alexander, Nicholas M.; Nishimoto, Miyako,

Alexander, Nicholas M.; Nishimoto, Miyako, 751

; Nishimoto, Miyako, 1738
Aleyassine, H.; Tonks, D. B.; Kaye, M., 492

—; Tonks, D. B., 1849
Algard, F. Thomas; Montessori, Gino A.; van Netten, Johannes P.; Munn, Maureen, 1848
Ali, Nabii See Albertson, Daniel F.
Allen, Diane M. See Monthony, James F.
Allison, Debra K. See Saat, Yeheskel A.
Alonso, K. B. See Brownlee, N. R.
Alpan, G. See Marmor, A.
Alpan, G. See Marmor, A.
Alpert, Andrew J. See Schlabach, Timothy D.
Altmiller, Dale H. See Fowler, Michael W.

—; Fowler, Michael W., 1007
Amano, Eiko See Balkcom, R. Michael
Amos, W. H., Jr.; Vaughn, G. C., 1014
Amsellem-Winzelberg, Lydia See
Ertingshausen, Gerhard
Andersen, Ivar, Torjussen, William;
Zachariasen, James H. See Jibril, Abbas O.
Anderson, R. J.; Studholme, R., 992
Anglim, Mary Ann See Onge, Linda St.
Anhalt, John P., 983

—; Brown, Steven D., 1940
Anoakar, Sunil G.; Garry, Philip J.; Standefer,
J. C., 1044
Anzano, Mario A.; Naewbanij, Jocelyn O.;
Lamb, Adrian J., 321

Arjonilla, J. R. See Bodlaender, P. Armstrong, D. T. See Zameenik, Jiri Armstrong, Joel See Fang, Victor S. Arnaud, Sara B. See Loken, Hans F. Arnett, Herman See Kuba, Kanta Arnfred, Terkel See Knudsen, Wilhelm Koch Arnold, E. L.; Cittadino, C. J., 1045 Arnold, Leroy H.; Cheng, Mary H., 996 Arnon, Ruth See Geiger, Benjamin Arvan, D. A. See Coolen, R. B. Ash, K. Owen See Nielsen, Leonard G.; Wu, James

James

; Wu, J. T.; Mao, E., 1012

; Holmer, Mary; Johnson, Carol Sue, 1491

; Hentschel, Wayne M., 2180

Ashby, C. Dennis; Lewis, John E.; Nelson,

Jerald C., 992

—; Lewis, John E.; Nelson, Jerald C., 1734

Athanassiadis, Sophia; Passey, Richard B.,

1651
Avram, William H., 1081
Avram, Michael J. See Davis, Joseph R.
Avrameas, Stratis See Hosli, Peter
Awad, Essam A. See Yasmineh, Walid G.
Azar, Miguel M. See Koehler, Donald F.
Bablock, Wolfgang G. See Szasz, Gabor
Bachner, Paul See Chuga, Derry J.
Bachorik, Paul See Ahmed, Sue; Lippel,
Kenneth

Bachner, Paul See Chuga, Derry J.
Bachorik, Paul See Ahmed, Sue; Lippel,
Kenneth
Backer, Egbert T., 1043
Bailey, G. G. See Turner, W. E.
Baine, Rosalie M. See Brosious, Effie M.
Baird, Marie A. See Sampson, Eric J.
Baker, Anna Marie K.; Ladden, Paul J., 1062
Baker, Dale R. See Bente, H. Bryan
Baker, R. See George, H.
Bakke, O. M. See Gutcho. Sidney
Baldino, Anna R. See Touchstone, Joseph C.
Baldwin, J. R.; Sternberg, J. C.; Derry, C. K.;
Lillig, J.; Hendrixson, M., 1009
Bale, Carol S. See Brautigan, Vicky M.
Baliah, Tadla See Shull, Bruce C.
Balis, John U. See Fareed, J.
Balkcom, R. Michael, 1204
—; Amano, Eiko, 1289
Ballantyne, Fiona C.; Williamson, John;
Shapiro, David; Caslake, Muriel J.; Perry,
Brian, 788
Bannister, Steve J.; Chang, Yunik; Sternson,

Salantyne, Ptona C.; Whilamson, John;
Shapiro, David; Caslake, Muriel J.; Perry,
Brian, 788
Bannister, Steve J.; Chang, Yunik; Sternson,
Larry A.; Repta, A. J., 877
Barbarbino, Raymond C.; Gray, Don N.;
Keyes, Melvin H., 1393
Barbier, Fabrice See Versieck, Jacques
Barclay, Mel L. See Kirkish, Lorraine S.
Bardelli, Fabrizio See Meiattini, Franco
Baril, Lynn; Carmel, Ralph, 2192
Barron, Edward J. See Hofman, Lindsay F.
Bartels, C. T. See Boerma, G. J. M.
Barton, Marcela See Hercz, Albert
Bartos, Dagmar; Bartos, Frantisek; Grettie,
Donald; Campbell, Robert, 523
Bartos, Frantisek See Bartos, Dagmar
Bates, Roger G. See Mohan, Mysore S.
Batjer, John D. See Liedtke, Raymond J.
Bauer, Robert, 1009
Bauer, Robert, 1009
Bauer, Robert, 1049
Bauman, Mitchel D. See Lohff, Martin R.
Bayer, Peter M.; Unger, Wilfried; Gergely,
Thomas W. J.; Gabl, Franz, 2207
Bayse, D. B. See Hannon, W. Harry
Bayse, D. D. See Burse, V. W.; Cooper, G. R.;
Hainline, A., Jr.; Mather, A.; Turner, W. E.
Bayse, David D. See Burtis, Carl A.; Neese,
Jane W.; Sampson, Eric J.
Beck, Peter R. See Dickson, Anne D.

—; Belfield, A.; Spooner, R. J.; Blumgart, L. H.;
Wood, C. B., 839
Becker, R. A. See Uddin, D. E.

Bec, David E. See James, Gordon P.
Beers, P. C.; Blumenfeld, T. A.; Kovacs, H.;
Knutzen, V.; Kerenyi, T.; Sarkozi, L., 1014
Behenna, Donald B. See Purcell, George V.
Belanger, Luc See Grenier, Andre
Belfield, A. See Beck, Peter R.
Bell, Ann Barbieri; Coleman, Larry H., 1755
Belles-Isles, M.; Page, M.; Talbot, J.; Loisetle,
J. M., 727
Benjamini, Eliezer, 969
Bensinger, Thomas A. See Ledford, Mary
Edith

Blu Boa

Boc Bod Bod

Bog

Boli Bon Bon

Bon Bon

Bon Bon

Boo

Bor Bor

Bor Bor

Bor Bor

Bos Bos

Bou

Boy

Boy Boy Bra Bra Bra Bra Bra

Bra

Bra Bre Bre

Bre Brie Brig

Bro

Bro Bro

Bro

Bro Bro Bro Bro

Bro Bro

Bro

Bente, H. Bryan; Baker, Dale R., 1008 Berenson, Gerald S. See Srinivasan, Sathanur

Bereton, Diane M.; Sontrop, Mary E.; Fraser, C. G., 1420
Bergkuist, C.; Kelley, T. F.; Moran, B. L., 1061
Bergmeyer, H. U.; Horder, M.; Moss, D. W.,
720

Pergeryer, Hans Ulrich; Scheibe, Peter;
Wahlefeld, August Wilhelm, 58
Berk, L. S.; Hillock, R. H.; Jutzy, R. V.; Ewing,
C. A., 999
Bermes, Edward W. See Collins, Sonia; Fareed,
J.; Fenton, John; Frank, Joseph J.; Joseph,
Jean Curley

Bernard, Anthony See Bisera, Jose Bernard H.; Snyder, K.; Lawless, Oliver J., 1018

J., 1018
Bernstein, Melvyn See Carlson, Robert E.
Berry, Arnold J. See Burri, Betty J.
Berry, D. H. See Melchert, H.-U.
Berta, Eileen See Trivedi, Ramesh C.
Bertorini, T. E. See Borer, W. Z.
Berzofsky, Jay A., 419
Besch, Deborah J. See Reimold, Ekkehard W.
Besch, N. F. See Buoy, M. E.
Besch, Norma See Broughton, Alan
Besch, P. K. See Buoy, M. E.; Huang, Norman
H.

H.
Besemer, Donald See Malone, Jane Sexton;
Scoggin, Diane
Bica, Teresa See D'Ascenzo, Giuseppe
Bickel, Margaret J. See Frank, Joseph J.
Biegeleisen, J. See Cooper, G. R.
Bierenbaum, Marvin L. See Fleischman, Alan

Bierenbaum, Marvin L. See Fleischman, Alan I.
Billon, Bernard See Munan, Louis
Bills, A. C. See Haymond, R. E.
Binder, Mervin See Fleischman, Alan I.
Bisera, Jose; Weil, Max Harry; Michaels, Sybil;
Bernard, Anthony; Stein, Bernard, 1586
Bissell, Glenn See Penton, Zelda
Bitensky, Lucille; Chayen, J., 1399
Black, Elliott; Akerkar, Anand; Hoholick,
Mary, 176
Black, Marsha: Sprague, Kent, 1288
Black, Maureen See McIntyre, Joyce A.
Black, Maureen See McIntyre, Joyce A.
Black, Mauren See McIntyre, Joyce A.
Black, Mauren, Arthur B., Jr. See Moore, John J.
Blair, Doyce; Rumack, Barry H.; Peterson,
Robert G., 1543
Blanchard, G. C.; Gardner, Rosalie, 808
Blanchflower, W. J. See McMurray, C. H.
Blanckaert, Norbert; Farina, Francis A.;
Marton, Laurence J.; Kabra, Pokar M., 1023
Blank, C. LeRoy See Sasa, Suleiman
Blijenberg, B. G. See Lipma, S. T.
Block, Elliott See Akerkar, Anand
Block, Marshall See Szpunar, Walter E.
Blomhoff, Jan Petter See Skrede, Sverre
Bluestein, Barry I. See Lepp, Cyrus A.
Blume, P. See Sheehan, M.
Blume, P. Hillip; Malley, Arthur; Knox, Robert J.;
Seaman, V. F., 1300
Blumenfeld, T. A. See Beers, P. C.
—; Cheskin, H. S.; Mantell, C. A.; Shinitzky, M.,

1045

2240 CLINICAL CHEMISTRY, Vol. 24, No. 12, 1978

Blumgart, L. H. See Beck, Peter R. Boackle, R. J. See Virella, G. Bock, Gregory M. See Li, Philip K. Bodey, Gerald P. See Broughton, Alan Bodlaender, P. See Stewart, C. —; Arjonilla, J. R.; Sweat, R.; Twomey, S. L., Bodey, Gerald P. See Broughton, Alan
Bodlaender, P. See Stewart, C.

-: Arjonilla, J. R.; Sweat, R.; Twomey, S. L.,
267

-: Arjonilla, J. R.; Twomey, S. L., 272
Boerma, G. J. M.; Toleikis, A.; Mather, A.;
Bartels, C. T.; Margeviciene, L.; Glasunov, I.
S.; Leijnse, B., 1126
Bogdan, Denis; Pu, George C., 168
Bogden, John D.; Troiano, Raymond A., 1553
Bohlen, Peter; Schechter, Paul J.; van Damme,
Willy; Coquillat, Gilles; Dosch, Jean-Claude;
Koch-Weser, Jan, 256
Boitnott, J. See Gerson, B.
Bolmey, Carlos See Dods, Richard F.
Bondar, R.; Shevehik, D.; Hsu, M., 1035
Bonderman, D. P. See Bonderman, P. W.
Bonderman, D. P. See Bonderman, P. W.
Bonderman, D. P. See Ponksch, Gary J.
Bonderman, P. W.; Bonderman, D. P.;
Aisenfeld, R., 1037
Bondo, P. B.; Kozak, C. M., 1024
Bonig, Jennifer A. See Shearer, Mark R.
Bonilla, Ernesto, 471
Boone, Joe See Broughton, Alan; Hearn, Tom;
Lewis, Sue
—; Hearn, Tom; Lewis, Sue, 1032
Border, J. R. See Yu, Leisure
Borek, Ernest See Kuo, Kenneth C.
Borer, W. Z.; Bertorini, T. E.; Robertson, E. A.;
Brown, N. D., 935
Borner, Ulf See Szasz, Gabor
Borrebaeck, Carl See Mattiasson, Bo
Borth, R. See Buttner, J.
Bost, R. O. See Dinovo, Eugene C.
Bostick, W. D.; Dinsmore, S. R.; Mrochek, J. E.;
Waalkes, T. P., 1305
Bout, Daniel See Fruchart, Jean Charles
Boutwell, J. H. See Buttner, J.
Bowers, George N., Jr. See Flood, James G.;
McComb, Robert B.; Kolley, Mari-Lou, 1001
Bowser, E. Nelson See Hargis, Gary K.
Bowers, George N., Jr. See Flood, James G.;
McComb, Robert B.; Kolley, Mari-Lou, 1001
Bowser, E. Nelson See Hargis, Gary K.
Bowers, George N., Jese Mohan, Mysore S.
Bransome, E. See Abraham, E. C.
Brauer, H. See Multer, H.
Braun, William See Kumar, Manjula S.
Braunstein, Glenn D. See McCready, Jill
Brautigan, Vicky M.; Bale, Carol S.; Kenny,
Margaret A., 1029
Breazis, Paul See Joseph, Jean Curley
Breckenridge, Carl See Aibers, John J.
Bretaudiere, Jean-Pierre See Copeland,
William H.
—; Rej, Robert, 1001
Breutzmann, David See Hemphill, Gary
Brewster, Marge A. See Melchert, H.-U.; William H.

—; Rej, Robert, 1001
Breutzmann, David See Hemphill, Gary
Brewster, Marge A. See Melchert, H.-U.;
Smith, Randolph H.
Bridges, D. R. See Walle, T.
Bridges, J. W. See Al-Bassam, M. N.
Bright, Michael See Shastri, Shirish
Brock, P. See Schoemaker, H. J.

—; Eldred, E. W.; Woiszwillo, J. E.; Doran, M.;
Schoemaker, H. J., 1595
Brocklehurst, David, 730
Brody, Bernard B. See Kubasik, Norman P. Brody, Bernard B. See Kubasik, Norman P. Brody, Judy; Valdes, R.; Savory, John; Johnston, M. T.; Titheradge, A.; Scott, D., Brookes, L. G.; Chao, F. C.; Forrest, I. S.; Green, D. E.; Loeffler, K. L.; Serra, M. T., 1031

Brooks, Marion H. See Collins, Sonia
Brooks, Richard J., 518
Brooks, Samuel H. See Werner, Mario
Brosious, Effie M.; Wright, Jane M.; Baine,
Rosalie M.; Schmidt, Robert M., 2196
Broughton, Ai, Frazier, M., 1033
Broughton, Alan, Strong, James E.; Pickering,
Larry K.; Knight, James; Bodey, Gerald P.,
717 -; Hopkins, Judy; Edwards, Leila; Besch, Norma; Boone, Joe; Stougas, Demetrios; Langan, John; Wien, George, 1221 Broughton, P. M. G. See Buttner, J. Broussard, Larry A.; Frings, Christopher S., 1007

Brown, Harold H. See Meola, John M.; Rosano, Thomas G.

Brown, Linda F. See Feld, Ronald D.; Witte, David L. —; Johnson, G. F.; Witte, David L.; Feld, Ronald D., 1032 Brown, Michael See Hochstrasser, Harry Brown, N. D. See Borer, W. Z. Brown, P.; McQueen, M. J.; Patterson, M. C.,

Brown, Ronald D.; Hegstad, Rebecca; Wisgerhof, Max, 129 Brown, Stanley S. See Adams, Douglas B. Brown, Steven D. See Anhalt, John P. Brown, Thomas R. See Ho, Thomson T. S. Brownley, N. R. See Kohl, H. H. —; Alonso, K. B.; Crawford, R. G.; Kohl, H. H., 1004 1004
Brownstone, D. Y. See Brownstone, Y. S.
Brownstone, Y. S.; Brownstone, D. Y.;
Diamond, M. J.; Foreman, E., 1060
Bruce, A. Wayne; Leiendecker, Catherine M.;
Freier, Esther F., 782
Bruno, David E. See Ladenson, Jack H.
Bruns, D. See Rence, B.
Bruns, David E.; Johnston, M. T.; Grover, S.
H. 1988 H., 988
Bryan, Donna J. See Gindler, E. Melvin
Buchinsky, Vincent See Denners, Laurence M.
Buckley, N. See Fanciullo, R. A.; Izutsu, A.
Buckley, N. See Fanciullo, R. A.; Izutsu, A.
Buege, J. A.; Doerr, M. L.; Dobler, G. L.;
Rautela, G. S., 1035
Buehler, Robert; Chan, Teresa, 1040
Buffone, G. J. See Van Steirteghem, Andre C.
Buffone, Gregory J.; Lewis, Susan A.;
Iosefsohn, Mariet; Hicks, Jocelyn M., 1788
Buhl, Steven N.; Jackson, Kathryn Y.;
Graffunder, Barbara, 261
—; Kowalski, Patricia; Vanderlinde, Raymond
E., 442 H., 988 -; Kowalski, Patricia; Vanderlinde, Raymond E., 442 -; Jackson, Kathryn Y., 828 Bunting, James R., 1054 Buoy, M. E.; Besch, N. F.; Besch, P. K.; Smith, R. G., 1044 Burger, Floris J.; Potgieter, Gideon M., 841 Burke, George See Schade, David S. Burke, L. See Martin, D. Burlina, Angelo, 502 Burnett, Robert W., 1850 Burri Betty J. Berry, Arnold J. Yarnell Burnett, Robert W., 1850
Burri, Betty J.; Berry, Arnold J.; Yarnell,
Stanley K., 1048
Burrin, Jacqueline See Lloyd, Barbara
Burrows, Graham D. See Maguire, Kay P.
Burse, V. W.; Needham, L. L.; Liddle, J. A.;
Bayse, D. D., 1030
Burtis, Carl A. See Hannon, W. Harry;
Sampson, Eric J.
—; Sampson, Eric J.;
McKneally, Sarah S.; Whitner, Virginia S.,
916 -; Sampson, Eric J.; Miller, Sheryl A.; McKneally, Sarah S.; Hannon, W. Harry, McKneally, Sarah S.; Hannon, W. Harry, 989
Busby, Barbara See Liedtke, Raymond J. Busch, Ernst-Werner See Szasz, Gabor Butler, Thorne J., 1057
Butt, Abdul See Akerkar, Anand Buttner, J.; Borth, R.; Boutwell, J. H.; Broughton, P. M. G.; Bowyer, R. C., 1213
Butts, William C. See Narayanan, Sheshadri Byrd, C. See Lustgarten, J. A.
Caffo, A. L.; Lubin, A. H., 1010
Caggiano, Deborah See Christine, Mary J. Campbell, Donald J. See Frohlich, Jiri
Campbell, Robert See Bartos, Dagmar
Cannon, Donald C. See Woo, Jannie
Cano, Carlos See Okkerse, John B., Jr.; Sevier, E. Dale
Capron, Andre See Fruchart, Jean Charles
Cargaher, T. E. See Pope, W. T.
Caragher, Timothy E.; Grannis, George F., 403
Cardarelli, Enrico See D'Ascenzo, Giuseppe
Carey, Larry C. See Marenberg, Stanford P.
Carey, R. Neill See Garber, Carl C.
Carlier, Yves See Fruchart, Jean Charles
Carlson, Robert E.; Dolphin, D.; Bernstein,
Melvyn, 2009
Carmel, Ralph See Baril, Lynn; Roy, Samir Melvvn, 2009 Carmel, Ralph See Baril, Lynn; Roy, Samir Carrico, Charles J. See Graham, Gary Carroll, Bernard J., 986 Carroll, Wallace E.; Jackson, R. David; Wilcox, Carter, Edward A.; Kim, Frank; Sodickson, Lester A., 837
Carter, Paul, 362
Carter, R. J. See Turner, W. E.
—; Johnson, M. W.; Hicks, D. G.; Sheard, E. A., 1029
Caruso, L. M. See Silverman, Lawrence M.
Case, Richard V.; Hassell, Anne M.; Willis,
James E., 1016
-; Mezei, Louis M., 2145
Caslake, Muriel J. See Ballantyne, Fiona C.
Castro, A. See Dittmar, D.
Castro, Albert; Ibanez, Joaquin; DiCesare,
Lacon, L. Adone: Revined F. Mellowe Joseph L.; Adams, Reginald F.; Malkus, Herbert, 710

; Ibanez, Joaquin; Voigt, Walter; Noto, Thomas; Malkus, Herbert, 944
Cate, J. C., IV See Hedrick, R.; McGlothlin, C. David -; Hedrick, R.; Taylor, M.; McGlothlin, C. David, 1063

Cederblad, Gitten; Hickey, Brian E.; Hollender, Anders; Åkerlund, Goran, 1191
Cembrowski, George S.; Larson, Frank C.;
Huntington, Robert W., Ill; Selliken, Joseph H., Jr.; Toren, E. Clifford, Jr., 555
Cernosek, Stanley F., Jr.; Gutierrez-Cernosek, H., Jr.; Yoren, E. Clifford, Jr., 555
Cernosek, Stanley F., Jr.; Gutierrez-Cernosek,
Rose Mary, 1121
Cerra, F. See Yu, Leisure
Chae, Kun See Luster, Michael I.
Chakrabarti, Siba G.; Gooray, David A.;
Kenney, John A., Jr., 1155
Chamberlain, R. Thomas, 1057
Chan, Daniel W. See Parra, Kathryn
—; Yanick, Paula; Rock, Robert C., 1062
Chan, M. See Wong, L. G.
Chan, Teresa See Buehler, Robert
Chang, Chin-Hai See Eimstad, Wendy M.;
Rodgers, Richard
Chang, Eppie S., 1037
Chang, J. See Harte, R.
Chang, Suckjoo, 1042
Chang, Yunik See Bannister, Steve J.
Chantarothipol, Vivat See Lolekha, Porntip H.
Chao, F. C. See Brookes, L. G.
Chapdelaine, Pierre; Tremblay, Roland R.;
Dube, Jean Y., 208
Chayen, J. See Bitensky, Lucille
Chegwidden, Kaye, Pirio, M. R.; Singh, P.;
Gushaw, J. B.; Miller, J. G.; Schneider, R.
S., 1056 Gushaw, J. B.; Miller, J. G.; Schneider, R. S., 1056
Chen, Chin-Chun; Osaki, S., 1023
Chen, I. W.; Sperling, M.; Volle, C.; Maxon, H. R., 1564
Chen, Julia See Lam, William K. W.
Chen, Nancy Wu See Fenton, John
Chen, S. C. See Martin, D.
Chen, S. C. See Martin, D.
Chen, S. C. See Martin, D.
Cheng, Chao-Shing See Li, Philip K.
Cheng, Frank S.; Christian, Gary D., 621
Cheng, Mary H. See Arnold, Leroy H.
Cheskin, H. S. See Blumenfeld, T. A.
Chilcote, M. E. See Yu, Leisure
Chin, B. H.; Kozbelt, S. J., 1052
Chinn, Dennis M. See Jennison, Thomas A.
-; Jennison, Thomas A.; Crouch, Dennis J.;
Peat, Michael A., 991
Chiou, Win L. See Peng, Geoffrey W.
-; Nation, Roger L.; Peng, Geoffrey W.
-; Nation, Roger L.; Peng, Geoffrey W.; Huang,
Shiew-Mei, 1846
Chittenden, Carol G. See North, James W. Chittenden, Carol G. See North, James W. Cholewa-Stewart, J. See Fellows, W. Chou, Jingshyen; Robinson, C. Andrew, Jr.; Siegel, Abraham L., 1708
Chow, Anne See Aibers, John J.
Christenson, James G.; Squires, Edwina;
Giamportone, Josephine; Gulino, Patricia, Christenson, Robert H.; McGlothlin, C. David, 1042 1042 Christian, Gary D. See Cheng, Frank S. Christiansen, Torben Falch See Fogh-Andersen, Niels Christine, Mary J.; Caggiano, Deborah; Penzer, Daniel, 1038 ; Mason, R. D.; Odstrchel, G.; Doran, M. A., -; Mason, R. D.; Odstrchel, G.; Doran, M. A., 1038
Chromy, V.; Kulhanek, V.; Fischer, J., 379
-; Voznicek, J.; Fischer, J., 513
Chua, K. S.; Tan, I. K., 150
Chuga, Derry J.; Bachner, Paul, 1286
Chui, J. See Wong, L. G.
Cid, A. See Dittmar, D.
Cittadino, C. J. See Arnold, E. L.
Claeys, Albert E. See De Leenheer, Andre P.
Clark, George See Luster, Michael I.
Clayton-Hopkins, Judith A. See Herner,
Albert E. Clark, George See Luster, Michael I.
Clayton-Hopkins, Judith A. See Herner,
Albert E.
Clegg, G. See Howarth, A. T.
Clements, Anton H. See Fogt, Eric J.
Clements, J. See Slaunwhite, D.
Cloutier, D. See Shapcott, D.
Cobb, S. A.; Gamblin, J. M., 1025
Cobb, Sharon A.; Sanders, James L., 1116
Cohen, Burton D. See Patel, Harini
Cohen, Patricia See Dix, Douglas
Cole, Thomas F. See Kuo, Kenneth C.
Coleman, Larry H. See Bell, Ann Barbieri
Collins, Michael A. See Hannigan, Jerome J.
Collins, Phyllis See Morris, Jeffrey
Collins, Sonia; Brooks, Marion H.; Bermes,
Edward W.; Frank, Joseph J., 1039
.; Brooks, Marion H.; Bermes, Edward W.;
Frank, Joseph J., 1040
Compton, Alan See Huber, Marla J.
Compton, Alan A. See Kirkish, Lorraine S.
Connolly, T. M.; Wessei, P., 1468
Conradi, E. C. See Walle, T.
Cook, M. M. See Eastmen, John W.
Coolen, R. B.; Arvan, D. A., 1063
.; Herbstman, R.; Hermann, P., 1636
Coombes, Robert F., 1038
Cooney, S. K. See Killingsworth, L. M.
Cooper, G. R. See Hainline, A., Jr.

—; Akins, J. R.; Biegeleisen, J.; Hazlehurst, J.; Myers, C. M.; Bayse, D. D., 1046 Cooper, Gerald See Atmed, Sue Cooper, J. Fenimore See Foti, Andras G. Cooper, Lynne J. See Hofman, Lindsay F. Cope, N. D. See Abraham, E. C. Copeland, Bradley E. See Gerson, Benjamin Copeland, William H.; Bretaudiere, Jean, Pietrer, Bei, Edwart 1046

Copeland, William H.; Bretaudiere, Jean-Pierrer Rej, Robert, 1046 Coquillat, Gilles See Bohlen, Peter Corbett, C. R. R.; Thompson, A. E.; Price, R. G., 724 Cornbleet, P. Joanne; Shea, Margaret C., 857 Cornell, Martha See Miller, Phillip; Weiss, Stephen

Stephen
Corrigan, James J. See Lox, Charles D.
Cottrell, David B See Frings, Christopher S.
..; Frings, Christopher S., 1062
Cox, Rody P. See Ghosh, Nimai K.
Craven, David J.; Symonds, E. M., 933
Crawford, R. G. See Brownlee, N. R.
Cree, G. M. See Paston, J. W.
Crookshank, H. R., 841 Crosby, Ruth G. See Harrison, Steadman D.,

Cross, R. E. See Jacobson, D. L.; Parker, Nancy C.; Savory, M. G.; Sedor, F. A.; Valdes, Roland

Crouch, Dennis J. See Chinn, Dennis M.;

Crouch, Dennis J. See Chinn, Dennis M.;
Jennison, Thomas A.
Crouse, S. P. See Parker, Nancy C.
Crouthamel, William G.; Kowarski, Benjamin;
Narang, Prem K., 1853
Crowl, Catherine P. See Rodgers, Richard
Crowther, Fredric H.; Trafton, John E., 1037
Crum, Mary Alice See Frings, Christopher S.
Cruyl, Annie A. See De Leenheer, Andre P.
Cruz, C. See Kranc, M. C.
Cuan, J. See Stewart, C.
Cunningham, Eugene E. See Vladutiu, Adrian
O.

Cunningham, Thomas D. See Davis, Thomas

Cuppett, C. Cecil See Custer, Kathy

Cuppett, C. Cecil See Custer, Rathy
—; Custer, Kathy, 1005
Curme, Henry G.; Dappen, Glen M.; Sanford,
Karl J., 998
Curme, Henry G., et al., 1335
Curnow, June V. See Frohlich, Jiri
Curry, Michael D.; Gustafson, Anders;
Alaupovic, Petar; McConathy, Walter J., 280

Cusic, Anne M. See Harrison, Steadman D., Jr. Custer, Kathy See Cuppett, C. Cecil —; Cuppett, C. Cecil, 1020 Daigneault, Rejean; Deschamps, Yyes, 5 ; Desjarlais-Legault, France; Letellier, Guy,

Davison, J. P.; Sinn, J., 991
Dawling, S. See Robinson, J. D.
Dayton, David A. See Knudson, Eric J.
de Araujo, Cirlene Ribeiro Correia; Flores,

Hernando, 386 De Bevere, Veerle O. See De Leenheer, Andre

De Broe, M. E. See McQueen, M. J.; Wieme, R.

J. J. G. Bruyn, Henk W. A. See Muskiet, Frits A. J. De Cock, P. See McQueen, M. J.; Wieme, R. J. DeCoteau, W. Earle See Hoag, Gordon N. Deese, Al See Hathaway, James A. De Hoff, Janet L.; Davidson, Larry M.; Kritchevsky, David, 433
Deindoerfer, Fred See Harte, R. de Jong, E. B. M.; Goldschmidt, H. M. J.; Loog, J. A.; van Alphen, A. C. C. M., 2170

de Kort, Ted F. M. See Williams, Hans L. Delaney, Kathleen K. See Long, Rita de Lauture, Daniele See Gerbaut, Lucile Delea, A. C.; Oliva, J.; Smith, J. B.; Hahn, B.,

De Leenheer, A. P. See DeRuyter, M. G. M.; Nelis, H. J. C. F.

De Leenheer, A. P. See DeRuyter, M. G. M.;
Nelis, H. J. C. F.
De Leenheer, Andre P.; De Bevere, Veerle O.;
Cruyl, Annie A.; Claeys, Albert E., 585
Demacker, P. N. M.; Vos-Janssen, H. E.; van't
Laar, A.; Jansen, A. P., 1439
-; Vos-Janssen, H. E.; Stuyt, P. M. J.; Schade,
R. W. B.; Jansen, A. P.; van't Laar, A., 1445
Demers, Laurence M.; Paul, Emmanuel M.;
Buchinsky, Vincent; Derck, Dennis, 1051
Demers, P. P. See Shapcott, D.
Demertiou, Leslie See Ohman, Sten
Deming, Stanley N. See Olansky, Ad S.
Demoss, John See Schade, David S.
Demoss, John See Schade, David S.
Demoss, John See Schade, David S.
Demosey, Mary E. See Koehler, Donald F.
Dendramis, Nancy See Gates, Stephen C.
Denine, E. Paul See Harrison, Steadman D., Jr.
Deodhar, Sharad D. See Kumar, Manjula S.
Depraetere, Y. R. See Peeters, T. L.
Derck, Dennis See Demers, Laurence M.
Derry, C. K. See Baldwin, J. R.
Der Rudder, Lillic, S. V.

M.
Derry, C. K. See Baldwin, J. R.
De Rudder, Julien See Versieck, Jacques
DeRuyter, M. G. M.; De Leenheer, A. P., 1920
Desai, Kiran See Trivedi, Ramesh C.
Deschamps, Yves See Daigneault, Rejean Desjarlais-Legault, France See Daigneault, Rejean

Desreumaux, Catherine See Fruchart, Jean

Charles

Deutsch, G. See Kleinhammer, G.

Deutsch, Jack See Henry, Veronica

Devine, Joseph E.; Kozlowski, Christine A.,

Devine, Joseph E.; Kozłowski, Christine A.,

1036
de Vries, Jacques A. See Muskiet, Frits A. J.

Dewailly, Philippe See Fruchart, Jean Charles

Dewhurst, Peter B. See Travis, Jeffrey C.

De Wolff, Frederik A. See Edelbroek, Peter M.

Dey, Elspeth See McQueen, M. J.

Diamond, I. See Griffiths, W. C.

Diamond, M. J. See Brownstone, Y. S.

Di Bella, F. P. See Hawker, C. D.

E. Kehrwald, J. M.; Laakso, K.; Zitzner, L., 451

DiBella, Francis P. See Heath, Hunter, III

DiCesare, Joseph L. See Castro, Albert

Dickson, Anne D.; Beck, Peter R., 723

Dietz, Albert A. See Gorsky, Jay E.

Dietzler, D. N. See Tieber, V. L.

Dietzler, David N. See Sams, Paul Steven

Dinovo, Eugene C. See Lee, Kyung-Dong;

McIntosh, Max E.

E. Lynn, J. K.; McIntosh, Max E.; Johnson, M.;

1002

-; Bost, R. O.; Sunshine, Irving; Gottschalk, L.

--; Bost, R. O.; Sunshine, Irving; Gottschalk, L. A., 1828
Dinsmore, S. R. See Bostick, W. D.
DiSilvio, Thomas V., 1653
Dittmar, D.; Monji, M.; Cid, A.; Malkus, H.;
Castro, A., 1032
Dix, Douglas; Cohen, Patricia; Kingsley, Sheila;
Senkbeil, Joyce; Sexton, Karen, 2073
Dixon, Marian; Paterson, Colin R., 824
Dobbins, Murrell F., IV See Touchstone,
Joseph Crements of the Company of

Dobbins, Murrell F., IV See Touchstone, Joseph C.
Dobbs, Joel See Robinson, C. A., Jr.
Dobler, G. L. See Buege, J. A.
Dodd, Lawrence M. See Fogt, Eric J.
Dodd, Thomas F.; Rutner, Herman, 1000
Dods, Richard F.; Bolmey, Carlos, 1024
Doerr, M. L. See Buege, J. A.
Dolar, Eugenia See Onge, Linda St.
Dolphin, D. See Carlson, Robert E.
Dong, M. H. See McGown, Evelyn L.
Doran, M. See Brock, P.
Doran, M. A. See Christine, Mary J.
Dorazio, Ronald C. See Flood, James G.
Dosch, Jean-Claude See Bohlen, Peter
Douay, O. See Kamoun, P.

Doumas, B. T.; Jendrzejczak, B.; Francke, J. M., 1021 1021
Dumas, Basil See Perry, Billy
Drayer, N. M. See Derks, H. J. G. M.
Drobeck, Kurt See Klose, Sigmar
Drosche, Joy M. See Therrell, Bradford L., Jr.
D'Souza, John P. See Kubasik, Norman P.
Dube, Jean Y. See Chapdelaine, Pierre
Dubowski, K. M.; Essary, N. A., 1031
Duhan, Harold A. See Gendler, Paul L.
Dunikoski, Leonard K., Jr., 1053
Durbridge, Timothy C.; Larson, Frank C.;
Toren, E. Clifford, Jr., 2210
Dyerberg, Jorn See Knudsen, Wilhelm Koch
Dziuk, Timothy W. See Therrell, Bradford L.,
Jr.

Easterday, Richard L. See Haagensen, Darrow

Fisch Fisch

Fitze Fitzg Fleck Fleis

Fleis

-; S

Flor Flor Flor

Flow Floy Fogh

Fogh

Fogt Foot. Fore

Fore Forr

Forr Fors Fort

Fost

Foti, Fow

Frai

Fran

Frai

Frai

Fras Fras

Fras Free Free

Frei

Frie Frie Frie Frie

Frie Frin Fris Frol Fru

Fry

Fuk

Full

Fur

Fvh

Gab Gab

Gaf Gag Gal Gal

E., Jr.
Eastlund, D. Ted See Lam, William K. W.
Eastman, John W., Cook, M. M.; Gotthardt, F.
A.; Faria, T. F., 1086
—; Pelton, Jackson R., 2066
Eaton, R. Philip See Schade, David S.
Eckfeldt, John; Freier, Esther; Leiendecker,
Cetherine, 2071

Catherine, 207

Edelbroek, Peter M.; De Wolff, Frederik A.,

Edwards, Leila See Broughton, Alan Eggert, Arthur See Soffer, Stuart

Edwards, Leila See Broughton, Alan Eggert, Arthur See Soffer, Stuart Eimstad, Wendy M. See Rodgers, Richard .; Schwarzberg, Moshe; Rodgers, Richard; Khanna, Pyare L.; Chang, Chin-Hai; Ullman, Edwin F., 1015
Eisenberg, Richard B. See Lantz, Robert K. Elahi, Nasik See Singh, K. D. Eldred, E. W. See Brock, P. Ellin, Ronald J., 1006
Ellefson, Ralph D. See Srinivasan, Sathanur R. Elliott, Howard C., 2068
Elliott, Howard C., 2068
Elliott, Howard C., Jr. See Kohl, Herbert H. Ellis, Graham; Morris, Raymond, 1954
Elser, Robert C., 1858
Elson, Michael K.; Shafer, R. B., 1040
Elston, D. J. See Rippin, S. J. Elswick, W. See Hedrick, R. Emanuel, Rodiea L.; Williams, Gordon H., 2042
Endres, David B.; Painter, Kent; Niswender, Gordon D., 460
Eng, F.; Huber, M. J.; Boyle, W. J.; Griewe, W.; McCann, D. S., 993
McCann, D. S., 993
Engback, Frode; Magnussen, Ib, 376
Entine, Steve See Soffer, Stuart Eppstein, Lee B.; Levy, Gabor B., 1286
Ermocilla, R. See Siegel, Abraham L. Ermshar, Clifford L., Gusseck, David J., 1767
Erskine, G. E. See Siddigi, Iqbal W. Ersser, R. S.; Seakins, J. W. T.; Manzaj, B., 836
Ertingshausen, Gerhard; Amsellem-Winzelberg, Lydia; Richert, Jean-Francois, Davids, Ryland, 1147
Essary, N. A. See Dubowski, K. M. Eustace, J. C. See Mittleman, R. Evans, Marilyn I.; Halter, Jeffrey B.; Porte, Daniel, Jr., 567
Evans, R. T.; Wroé, Janet, 1762

Evans, Marilyn I.; Halter, Jeffrey B.; Porte, Daniel, Jr., 567
Evans, R. T.; Wroé, Janet, 1762
Evans, Robert G. See Rao, Parinam S. Ewen, Lilian M. See Yang, N. Y. Jack
Ewen, Lilian M. See Yang, N. Y. Jack
Ewing, C. A. See Berk, L. S.
Fabian, Carol See Mendenhall, Douglas W. Fairclough, Gordon F., Jr. See Nandedkar, Arvind K. N.

akunle, Julius See Ruff, Willie L.

Falk, Hans L., 971

Fan, Der-Fong; Sherwin, Susan, 1041

Fanciullo, R. A.; Huber, N.; Izutsu, A.; Pirio, M. R.; Buckley, N.; Singh, P.; Gushaw, J. B.; Miller, J. G.; Schneider, R. S., 1056 Fang, Victor S.; Armstrong, Joel; Worsley, Ian G., 941

Fang, Victor S.; Armstrong, Joel; Worsley, Ian G., 941
Farber, Sergio J.; Repique, Eliseo V., 1017
Fareed, J.; Messmore, Harry L.; Gosnell,
Letitia; Novak, Heidi; Janota, Donna L.;
Bermes, Edward W.; Balis, John U., 1053
Faria, T. F. See Eastman, John W.
Farina, Francis A. See Blanckaert, Norbert;
Gotelli, George R.
—; Ito, Ralph K.; Kabra, Pokar M., 1054
Farquhar, J. K. See Schwertner, H. A.
Farrance, Ian See Staley, Michael J.
Farrell, Philip M., 968
Fars, Leroy See i. Stris, Jeffrey
Fast, D. M. See Hannon, W. Harry
Faust, S. D. See Youssefi, M.
Fay, Anthony See Lin, Fu C.
Feld, Ronald D. See Brown, Linda F.; Witte,
David L., 2039
Feldbruegge, Donald See Garber, Carl C.
Feldkamp, C. See Hoover, D.
Felkel, Hugo L., J.; Pardue, Harry L., 602
Fellenberg, A. J.; Pollard, A. C., 1821
Fellows, W.; Cholewa-Stewart, J.; Rand, R. N.,
1018

1018

1018
Fellows, William D. See Schusert, Richard M.
Fenimore, David C.; Davis, Chester M.; Meyer,
Carol J., 1336
Fenton, John; Schaffer, Michael; Chen, Nancy
Wu; Bermes, Edward W., 1031
Ferard, G. See Jung, G.
Ferrell, William J.; Jabs, Clarence M.; Robb,

Herbert J., 1012 Fifield, Richard See Whicher, John T. Fingerhut, Benjamin, 1021, 1624 Fingerhut, Benjamin, 1021, 1624 Fink, Daniel J. See Van Lente, Frederick Finley, Paul R.; Williams, R. Jane, 165 —; Schifman, Ronald B.; Williams, R. Jane; Lichti, Donald A., 931

-; Williams, R. Jane; Lichti, Donald A.; Thies, A. Cole, 2125 Fischer, J. See Chromy, V. Fischer, Lawrence J. See Thies, Robert L. Fisher, Delbert A., 981 Fitzgerald, Joseph F. See Thompson, Richard M. M.
Fitzgibbon, J. J. See Jaberg, C. E.
Flechtner, Thomas W. See Lewis, Larry M.
Fleischman, Alan I.; Bierenbaum, Marvin L.;
Binder, Mervin; Steir, Arleane, Sr.; Somol,
Helen; Watson, Portia B.; Naso, Ann-Marie, Fleisher, M. See Nisselbaum, J. S.; Schwartz, Pleisher, M. See Nisseinaum, S. S., German, M. K.

—; Schold, C.; Schwartz, M. K.; Posner, J., 1002
Flood, James G. See McComb, Robert B.

—; Schuert, Conrad; Dorazio, Ronald C.;
Bowers, George N., Jr., 1207
Flores, Hernando See de Araujo, Cirlene
Ribeiro Correia
Flores, O. See Sun, L.
Flores, O. R.; Akiyama, A. M.; Szendera, V.,
1028 1028
Flowers, M. See Huang, Norman H.
Floyd, Michael See Woo, Jannie
Fogh, Kaj See Knudsen, Wilhelm Koch
Fogh-Andersen, Niels; Christiansen, Torben
Falch; Komarmy, Louis; Siggaard-Andersen,
Oct. 1456 Fogh-Andersen, Niels; Christiansen, Torben Falch; Komarmy, Louis; Siggaard-Andersen, Ole, 1545
Fogt, Eric J.; Dodd, Lawrence M.; Jenning, Ellen M.; Clements, Anton H., 1366
Foot, C. H. See Wiener, K. Foreback, C. C. See Kranc, M. C. Foreman, E. See Brownstone, Y. S. Forrest, I. S. See Brookes, L. G. Forrester, Roger L.; Wataji, Lester J., 1035
—; Robertson, William R., 1037
Foraythe, J. G. See Lowry, J. D. Fortier, Raymond; Twomey, Stanley; McGrath, W. P., 1017
Foster, K. J.; Alberti, K. G. M. M.; Hinks, L.; Lloyd, B.; Postle, A.; Smythe, P.; Turnell, D. C.; Walton, R., 1568
Foti, Andras G.; Cooper, J. Fenimore; Herschman, Harvey, 140
Fowler, Michael W. See Altmiller, Dale H. —; Altmiller, Dale H., 1007
Francke, J. M. See Doumas, B. T. Frank, Joseph J. See Collins, Sonia
—; Bermes, Edward W.; Bickel, Margaret J.; Watkins, Bruce F., 1966
Franklin, Michael; Wiles, David H.; Harvey, David J., 41
Franks, Christopher R. See Hoag, Gordon N. Franz, Roger L., 725
Fraser, C. G. See Bereton, Diane M. Fraser, C. allum G. See Peake, Michael J. Frazier, M. See Broughton, A. Freedland, Neil A. See Newman, Howard A. I. Freer, Dennis E. See Statland, Bernard E. —; Statland, Bernard E.; Sher, Geoffrey, 1980
Freier, Esther F. See Bruce, A. Wayne; Hansen, Jessie L.
Fremouw-Ottevangers, Dineke C. See Freier, Esther F, See Bruce, A. Wayne;
Hansen, Jessie L.
Fremouw-Ottevangers, Dineke C. See
Muskiet, Frits A. J.
Frick, Alice See Stahl, Andre
Friedman, Eli A. See Lum, Gifford
Friedman, M. E. See Kohl, H. H.
Friedman, Richard See Soffer, Stuart
Friedman, Robert B.; Williams, Marcia A.;
Moser, Hugo W.; Kolodny, Edwin H., 1576
Frings, Christopher S. See Broussard, Larry
A.; Cottrell, David B; Crum, Mary Alice, 1011
Frison, J. C. See Ras, M. R.
Frohlich, Jiri; Kozier, Joanne; Campbell,
Donald J.; Curnow, June V.; Tarnoky,
Andras L., 1912
Fruchart, Jean Charles; Desreumaux,
Catherine; Dewailly, Philippe; Sezille,
Georges; Jaillard, Jacques; Carlier, Yves;
Bout, Daniel; Capron, Andre, 455
Frye, Roger See Parra, Kathryn
Fudge, Andrew N., 374
Fukushima, David K. See Kream, Jacob
Fuller, B. C. See Rippin, S. J.
Fuller, B. C. See Rippin, S. J.
Fuller, B. C. See Rippin, S. J.
Furda, J.; Vlastelica, D. L.; Snyder, L. R.; Hansen, Jessie L.

Frohlich, Jiri; Kozier, Joanne; Campbell, Donald J.; Curnow, June V.; Tarnoky, Andras L., 1912
Fruchart, Jean Charles; Desreumaux. Catherine; Dewailly, Philippe; Sezille, Georges; Jaillard, Jacques; Carlier, Yve Bout, Daniel; Capron, Andre, 4SF Frye, Roger See Parra, Kathryn Fudge, Andrew N., 374
Fudkushima, David K. See Kream, Jacob Fuller, B. C. See Rippin, S. J. Fuller, John B. See Hardin, Eugene; Jame Gordon P. Furda, J.; Vlastelica, D. L.; Snyder, L. R.; Hahn, B.; Uretsky, L. S., 1023
Furst, Daniel E. See Weinkam, Robert J. Fyhrquist, Frej; Puutula, Liisa, 115
-; Puutula, Liisa, 1202
Gabl, Franz See Bayer, Peter M. Gabrielli, Michel, 1990
Gadalla, M. A. F. See Peng, Geoffrey W. Gaffney, T. E. See Walle, T. Gagneja, G. L., 1041
Galante, L. F. See Singh, K. D. Galen, Robert S. See Pascual, C.

Galjaard, Hans, 967
Gambardella, Ronald L., 1059
Gamblin, J. M. See Cobb, S. A.
Gamblin, James M. See Goldberg, Jack M.
Garber, Carl C.; Carey, R. Neill, 702

—; Feldbruegge, Donald, 1020

—; Feldbruegge, Donald; Miller, Richard C.;
Carey, R. Neill, 1186
Garcia, Meredith M. See Witherspoon, L. R.;
Witherspoon, Lynn R.
Gardner, L. B. See Mittleman, R.
Gardner, Rosalie See Blanchard, G. C.
Garry, P. J.; Standefer, J. C., 1011
Garry, Philip J. See Anoakar, Sunil G.
Gartside, Peter S. See Stein, Evan A.
Gates, Stephen C.; Sweeley, Charles C., 1663
—; Dendramis, Nancy, Sweeley, Charles C., 1674
Geary, T. D. See Rippin, S. J.
—, 1085
Gehrke, Charles W. See Davis, Thomas P.; -, 1085 Gehrke, Charles W. See Davis, Thomas P.; Kuo, Kenneth C. Gehrke, Charles W., Jr. See Davis, Thomas P. Geiger, Benjamin; Navon, Ruth; Arnon, Ruth, Geller, Jack See Albert, Jerry Gendler, Paul L.; Duhan, Harold A.; Rapoport, Gendier, Paul L.; Duhan, Harold A.; Rapoport, Henry, 230
Genung, Richard K. See Lee, Norman E. George, H.; Baker, R., 1014
Gerbaut, Lucile; de Lauture, Daniele; Olive, Ag. Georges; Pequignot, Henri, 1287
Gerbitz, Klaus D.; Kemmler, W., 890
Gergely, Thomas W. J. See Bayer, Peter M. Gerhardt, Klaus O. See Davis, Thomas P. Gerhardt, Willie See Gruber, Wolfgang;
Ljungdahl, Lars; Szasz, Gabor;
Waldenstrom, Johan
Gerson, B.; Rock, R.; Ireland, J.; Menduke, H.;
Boitnott, J.; Maddrey, W., 1048
Gerson, Benjamin; LaBrie, James; Copeland,
Bradley E., 1834
Gerson, Marion See Mardell, Richard
Ghosh, Nimai K.; Cox, Rody P., 1003
Giamportone, Josephine See Christenson,
James G. Henry, 230 James G.

Giannini, Giuliano See Meiattini, Franco
Giegel, Joseph L.; Welsh, Muriel; Moore, John
J.; Sax, Sylvan M., 1034
Gilbertson, T. J. See Stryd, R. P.
Gillilian, Bobbie See Stryd, R. P.
Gillilian, Judith M.; Smeaton, Timothy C.;
Rowland, Krystyna, 1500
Gindler, E. Melvin; Bryan, Donna J., 1023
Ginney, William See Kubasik, Norman P.
Giovanniello, Thomas J. See Pecci, Joseph
Giridhar, Giri, 1994 Gindler, E. Melvin; Bryan, Donna J., 1023
Ginney, William See Kubasik, Norman P.
Giovanniello, Thomas J. See Pecci, Joseph
Giridhar, Giri, 994
Gjone, Egil See Skrede, Sverre
Gladigau, V. See Hengy, M.
Glasunov, I. S. See Boerma, G. J. M.
Gleich, Gerald L., 980
Glick, M. P. See Ryder, K. W.
Glick, Melvin R. See Thompson, Richard M.
Sample, Richard H. B., 1058
Nordschow, Carleton D.; Oei, Tjien O., 1423
Glueck, Charles J. See Stein, Evan A.
Goud, E. See Hoover, D.
Gochman, Nathan See Whitlow, Karen
Godolphin, William; Thoma, Jerry, 483
Gold, Mark See Mamaril, Francisco P.
Goldberg, Jack M.; Gamblin, James M., 2061
Goldfarb, Rebecca D. See Nix, Paul T.
Goldie, David J. See Ismail, Adel A. A.
Goldschmidt, H. M. J. See de Jong, E. B. M.
Goldstein, Dora B., 976
Gomi, Kunihide See Yuu, Hojvo
Gonyea-Stewart, Lorraine, 837
Goodwin, Frederick King, 986
Gooray, David A. See Chakrabarti, Siba G.
Gorsky, Jay E.; Dietz, Albert A., 169
Dietz, Albert A., 1485
Gosnell, Lettia See Fareed, J.
Gotelli, George R.; Weingartner, Donys;
Marton, Laurence J., 173
Stanfill, Robert E.; Kabra, Pokar M.; Farina,
Francis A.; Marton, Laurence J., 1144
Wall, Jeffrey H.; Kabra, Pokar M.; Marton,
Laurence J., 2132
Gotthardt, F. A. See Eastman, John W.
Gottschalk, L. A. See Dinovo, Eugene C.
Goyens, P. See Van Steirieghem, Andre C.
Graffunder, Barbara See Buhl, Steven N.
Graham, Margaret See Kubasik, Norman P.
Grannis, George F. See Caragher, Timothy E.
—; Lott, John A., 640
Gray, Don N. See Barbarbino, Raymond C.
Gray, Joe W., 984

Greaves, John P., Jr. See Liedtke, Raymond J. Green, D. E. See Brookes, L. G. Green, K. See Zameonik, Jiri Greenblatt, David J., 1838 Gregory, Doreen See Lukrec, Aron Gren, Joann M. See Johnson, Garland A. Grenier, Andre, Morissette, Jean; Valet, Jean-Paul; Belanger, Luc, 2158 Grettie, Donald See Bartos, Dagmar Greyson, Jerome See Zipp, Adam Griewe, W. See Eng, F. Griffiths, John See Wolf, Peul L. Griffiths, W. C.; Diamond, I., 1027 Grisley, D. See Rand, R. Groen, A. See Hindriks, F. R. Groman, Ernest See Sacco, Marian Gross, Ludwig See Lukrec, Aron Gross, Mitchell S. See Rosenberg, Burton J. Groth, Torgny See Westgard, James O. Grotjan, H. E., Jr.; Steinberger, E., 1193 Grover, S. H. See Bruns, David E. Growcock, G. See Peter, F. Gruber, Wolfgang See Szasz, Gabor; Waldenstrom, Johan -, 177 -; Gerhardt, Willie; Waldenstrom, Johan; Szasz, Gabor, 988 Gruemer, Hanns-Dicter See Picard, Russell A. Gruemer, H.-D. See Pickard, N. A.; Verrill, H. L.

-; Pickard, N. A.; Verrill, H. L.; Isaacs, E. R.;
Robinow, M.; Myers, E. C., 1028
Guentert, Theodor W.; Riegelman, Sidney, Guentert, Theodor W.; Riegelman, Sidney, 2065
Guiney, William See Kubasik, Norman P. Gulino, Patricia See Christenson, James G. Gushaw, J. B. See Chegwidden, Kaye;
Fanciullo, R. A.; Izutsu, A.
—; Miller, J. G., 1032
Gusseck, David J. See Ermshar, Clifford L. Gustafson, A. B. See Uddin, D. E. Gustafson, Anders See Curry, Michael D. Gustafson, Anthony B. See Mell, Leroy D., Jr. Gustafson, Jan E. C., 369
Gutcho, Sidney See Akerkar, Anand
—; Bakke, O. M., 388
Guthrie, Robert See Orfanos, Adam P. Gutierrez-Cernosek, Rose Mary See
Cernosek, Stanley F., Jr.
Gwyn, S. A. See Missen, A. W.
Haagensen, Darrow E., Jr.; Easterday,
Richard L.; Stolle, Catherine A.; Wells,
Samuel A., Jr., 135
Habig, Robert L. See Narsyanan, Sheshadri
—, 2058 Hadrield, K. L. See Reese, Max G.
Haeckel, R., 1846
Haff, Agnes C., 2031
Hafkenscheid, J. C. M., 2061
Hahn, B. See Delea, A. C.; Furda, J.; Varady, R.
Hahn, Ben See Rao, Jagan
Hainline, A., Jr.; Winn, C. L.; Cooper, G. R.;
Miller, D. T.; Bayse, D. D., 1020
Hall, B. See Lustgarten, J. A.
Halley, Henry H. See Jacks, Edwin H.
Halter, Jeffrey B. See Evans, Marilyn I.
Hama, Tokiko See Kato, Takeshi
Hama, Tokiko See Kato, Takeshi
Hamernyik, Peggy See Piepkorn, Michael W.
Hamilton, Horace E. See Schwertner, Harvey
A. Hamlin, Clive; Ackerman, Edward, 2013 Hammond, John E. See Partain, C. L. --; Phillips, Julius C.; Savory, John, 631 Hammond, Keith B. See Daugherty, Ned A.; Hammond, Keith B. See Daugherty, Ned A.;
Osberg, Iris M.
Handa, Y. See Wada, M.
Hannigan, Jerome J.; Collins, Michael A., 995
Hannon, W. Harry See Burtis, Carl A.;
Sampson, Eric J.
— McKenzie-Benson, C. P.; McKneally, S.;
Sampson, Eric J.; Burtis, Carl A., 990
—; Fast, D. M.; Shaw, William; Burtis, Carl A.;
Bayse, D. B., 1050
Hansen, Herbert W. See Schall, Roy F., Jr.
Hansen, Lessie L.; Freier, Esther F., 475
Hansen, Leland G. See Warwick, Warren J.
Hanson, Naomi Quast; Yasmineh, Walid G.,
762 Hardin, Eugene; Passey, Richard B.; Fuller, John B., 178

Hardin, Judy See Yang, Henry C.

Hargis, Gary K.; Reynolds, W. Ann; Williams,

Gerald A.; Kawahara, Wanda; Jackson,

Bertha; Bowser, E. Nelson; Pitkin, Roy M., Harrington, Wayne H. See Scanzillo, Nathan T., Cusic, Anne M.; Denine, E. Paul, 1052 Hart, Ronald W. See Saat, Yeheskel A. Harte, R.; Kameda, N.; Chang, J.; Deindoerfer, Fred, 1033 -; Kameda, N.; Chang, J., 1033

Harvey, David J. See Franklin, Michael
Hassell, Anne M. See Case, Richard V.
Hassemer, D. See Laessig, R.
Hathaway, James A.; Deese, Al, 1081
Haughey, David See Shull, Bruce C.
Havel, Richard J., 978
Hawker, C. D.; Di Bella, F. P., 1013
Hayashi, Chozo See Yamaguchi, Yoshihisa
Haymond, R. E.; Knight, J. A.; Bills, A. C., 1853
Hayward, David See Pinio, Samuel
Hazlehurst, J. See Cooper, G. R.
Hearn, Tom See Boone, Joe; Lewis, Sue
—; Boone, Joe; Sampson, Eric J., 990
Hearne, Gregory M. See Kelly, Raymond C.
Heath, Hunter, III; DiBella, Francis P., 1833
Heber, D.; Odell, W. D.; Schedewie, H.;
Wolfsen, A. R., 796
Hebert, Suzanne R.; Hillock, Ronald H., 998
Hebry, Olle See Osterberg, Siw
Hedrick, R. See Cate, J. C., IV; McGlothlin, C.
David
—Elswick W.; Cate, J. C., IV; McGlothlin, C.

David David

—; Elswick, W.; Cate, J. C., IV, 1029

Hegstad, Rebecca See Brown, Ronald D.

Heine, M. W. See Lox, Charles D.

Heinz, John W. See Lott, John A.

Helm, Douglas See McCready, Jill

Helson, L. See Nisselbaum, J. S.

Hemphill, Gary See Jennison, Thomas A.

Prottyreaps Devid 1999**

Hemphill, Gary See Jennison, Thomas A.

; Breutzmann, David, 992
Henderson, A. R. See Leung, F. Y.
Hendrixson, M. See Baldwin, J. R.
Hengen, Michaela See Hengen, Nikolaus
Hengen, Nikolaus; Hengen, Michaela, 50

; Seiberth, Volker; Hengen, Michaela, 1740
Hengy, M.; Vollmer, K.-Ö.; Gladigau, V., 692
Henry, Veronica; Deutsch, Jack; Lum, Gifford,
514
Hentschel Wayne M. See Ash K. Owen

514
Hentschel, Wayne M. See Ash, K. Owen
Herbstman, R. See Coolen, R. B.
Hercz, Albert; Barton, Marcela, 153
Hermann, P. See Coolen, R. B.
Herner, A. E. See Hopkins, J. A. Clayton
Herner, Albert E.; Clayton-Hopkins, Judith A.,
1275
Herschman Harsyn Soe Peri A. June C.

Herner, Albert E.; Clayton-Hopkins, Judith A., 1275
Herschman, Harvey See Foti, Andras G. Herzberg, Mala; Wiener, Meir Henry, 1759
Hewitt, Thomas E.; Kessler, Gerald; Sievers, Diana L.; Kessler, Gerald, 1056
—; Sievers, Diana L.; Kessler, Gerald, 1854
Hickey, Brian E. See Cederblad, Gitten Hickey, Patricia J. See Wang, Ming-Chung Hickey, T. M. See Uddin, D. E.
—; Uddin, D. E.; Kiesow, L. A., 1054
Hicks, Jocelyn M. See Buffone, Gregory J.; Josefsohn, Mariet
—; Josefsohn, Mariet, 1021
Higuchi, Takeru See Mendenhall, Douglas W. Hill, J. Gilbert See Soldin, Steven J. Hiller, John M. See Mohan, Mysore S. Hillock, R. H. See Berk, L. S. Hillock, R. H. See Berk, L. S. Hillock, Ronald H. See Hobert, Suzanne R. Hindriks, F. R.; Groen, A., 2062
Hinds, Thomas R. See Mangubat, Elmer A. Hinkley, C. M. See Huang, Norman H.

Hinderiks, F., Groen, A., 2002.
Hinds, Thomas R. See Mangubat, Elmer A.
Hinkley, C. M. See Huang, Norman H.
Hinks, L. See Foster, K. J.
Hinsch, W. See Sundaram, P. V.
Hipp, Win Anne See Virella, Gabriel
Hirsch, Charlene Z. See Touchstone, Joseph C.
Ho, Thomson T. S.; Walz, Daniel A.; Brown,
Thomas R., 1053
Hoag, Gordon N.; Franks, Christopher R.;
DeCoteau, W. Earle, 1654
Hobbs, John R. See Whicher, John T.
Hobey, William D.; Prybyla, Judith A., 2206
Hochstrasser, Harry; Rao, Jagan; Brown,
Michael; Stevenson, David, 1006
Hoffman, D. B. See Singh, K. D.
Hoffmeister, H. See Melchert, H.-U.
Hoffmaster, H. See Melchert, H.-U.
Hoffmeister, H. See Melchert, H.-U.
Hofman, Lindsay F.; Cooper, Lynne J.; Barron,
Edward J., 1638
—; Moline, Carolyn; McGrath, Gloria; Barron,
Edward J., 1639
Hoholick, Mary See Akerkar, Anand; Black,

Hoholick, Mary See Akerkar, Anand; Black, Elliott

Elliott
Holleman, C. See Jacobson, D. L.; Sedor, F. A.
Hollender, Anders See Cederblad, Gitten
Hollister, Leo E., 987
Holmer, Mary See Ash, K. Owen
Holzbecher, Jiri See Ryan, Douglas E.
Hood, W. See Virella, Gabriel
Hoover, D.; Goad, E.; Feldkamp, C.; Patt, D.,

998
Hopkins, J. A. Clayton; Rule, A. H.; Schussler, G. C.; Lassman, M. N.; Zimmerman, R. S.; Herner, A. E., 992
Hopkins, Judy See Broughton, Alan Horak, Eva See Sunderman, F. William, Jr. Horder, M. See Bergmeyer, H. U. Horpacsy, Geza; Zinsmeyer, Jorg; Schroder, Karsten; Mebel, Moritz, 74

Horvath, C. See Leon, L. P. Hoskin, Somsong P. See Adolf, Paul K. Hosli, Peter; Avrameas, Stratis; Ullmann, Agnes; Vogt, Esther; Rodrigot, Maryvonne,

Agnes; Vogt, Esther; Rodrigot, Maryvonne, 1325
Hosoya, Junichiro See Yuu, Hojyo
Hoste, Julien See Versieck, Jacques
Howanitz, J. H. See Ruma, T. A.
Howarth, A. T.; Clegg, G., 804
Howell, Barbara F.; McCune, Susan; Schaffer,
Robert, 1001
—; Schaffer, Robert; Sasse, Edward A., 1284
Hsu, M. See Bondar, R.
Hu, Mae W. See Rodgers, Richard
Huang, Norman H.; Hinkley, C. M.; Smith, R.
G.; Flowers, M.; Besch, P. K., 1010
Huang, Shiew-Mei See Chiou, Win L.
Huber, C. O. See Schick, K. G.
Huber, Marla J.; Parra, Juan; Compton, Alan;
McCann, Daisy S., 993
Huber, N. See Fanciullo, R. A.
Huff, T. See Abraham, E. C.
Hughes, R. C. See Purkiss, P.
Huisman, T. H. J. See Abraham, E. C.
Hulley, Stephen B., 979
Humbert, James R. See Li, Philip K.
Humphries, B. A. See Smock, P. L.
Hunt, James See Whicher, John T.
Huntington, Robert W., III See Cembrowski,
George S.

Hunti, James See Whicher, John T.
Huntington, Robert W., III See Cembrowski,
George S.
Husdan, Harry; Leung, Mary; Oreopoulos,
Dimitrios; Raponort, Abraham, 204
Hyun, Jayson, 176
Ibanez, Joaquin See Castro, Albert
Ibrahim, Guirguis A. See Yasmineh, Walid G.
Igloi, M. P. See Sundaram, P. V.
Igou, D. K. See Williams, R. C.
IJpma, S. T.; Blijenberg, B. G.; Leijnse, B., 489
Imai, Kazuhiro See Mashige, Fumiko
Imler, Marc See Stahl, Andre
Inada, Yuj; Okamoto, Hiroshi; Kanai, Shozo;
Tamaura, Yutaka, 351
Issefsohn, Mariet See Buffone, Gregory J.;
Hicks, Jocelyn M.
—; Hicks, Jocelyn M., 1644
Ireland, J. See Gerson, B.
Irvine, D. G., 2069
Irwin, L. E. See Silverman, Lawrence M.
Isaacs, E. R. See Gruemer, H.-D.; Pickard, N.
Abii Town See Yun, Hoire

Isaacs, E. R. See Gruemer, R.-D.; Pickard, N. A.
Ishii, Toru See Yuu, Hojyo
Ismail, Adel A. A.; West, Peter M.; Goldie, David J., 571
Ito, Ralph K. See Farina, Francis A.
Izutsu, A. See Fanciullo, R. A.
—; Pirio, M. R.; Buckley, N.; Singh, P.; Gushaw, J. B.; Miller, J. G.; Schneider, R. S., 1055
Jaberg, C. E.; Potter, J. L.; Fitzgibbon, J. J., 1058

1058
Jabs, Clarence M. See Ferrell, William J.
Jacken, J. See McQueen, M. J.; Wieme, R. J.
Jacks, Edwin H. See Lennette, E. Paul
—; Halley, Henry H.; Lennette, E. Paul, 1022
Jackson, Bertha See Hargis, Gary K.
Jackson, Kathryn Y, See Buhl, Steven N.
Jackson, Kenneth W., 2135
Jackson, R. David See Carroll, Wallace E.
Jacob, R. A.; Munoz, J. M.; Sandstead, H. H.,
1054

Jacobson, D. L. See Sedor, F. A.

—; Sedor, F. A.; Holleman, C.; Cross, R. E., 1060
Jaffar, M. B. See Pawar, G. B.
Jaffer, Russell; Wilson, Theresa, 1026
Jaillard, Jacques See Fruchart, Jean Charles
James, Gordon P.; Bee, David E.; Fuller, John
B., 1934
Janne, Olli See Vihko, Pirkko
Janota, Donna L. See Fareed, J.
Jansen, A. P. See Demacker, P. N. M.
Jast, Elizabeth See Meola, John M.
Jawad, M. J.; Wilson, E. A.; Kincaid, H. L.,
1043

1043

Javasa, M. J.; Wilson, E. A.; Alincald, H. L.,
1043
Jendrzejczak, B. See Doumas, B. T.
Jendrzejczak, Bernadine See Perry, Billy
Jenning, Ellen M. See Fogt, Eric J.
Jennison, Thomas A. See Chinn, Dennis M.;
Peat, Michael A.

—; Chinn, Dennis M.; Crouch, Dennis J.;
Thatcher, G. William; Hemphill, Gary, 1059
Jenny, Richard W.; Newman, Howard A. L.;
Saat, Yeheskel A., 1025
Jeunelot, Carol Lynne See Klein, Bernard
Jeuring, Hans J. See Muskiet, Frits A. J.
Jibril, Abbas O.; Mabbu, P. R.; Andersen,
James H.; Volini, Frederick I., 1002
Jimerson, J. C. See Ryder, K. W.
Jockers-Wretou, E.; Pfleiderer, G.; Morin, Leo
G., 179

G., 179 Joern, William A., 1057, 1458 Johnson, Carol Sue See Ash, K. Owen

Kir Kir Kir

Kis Kis Kit Kit Kle

Kle Kle

Kn Kn Kn Kn Kn Kn

Kn

Ko

Ko

Ko Ko

Ko Ko

Ko Ko Ko Ko Ko

Ke

Ke Ke Ke

Kı

K K

K K

K

KKK K

Johnson, Dennis C. See Lewis, Eugene C.

—; Lewis, Eugene C., 1007
Johnson, G. F. See Brown, Linda F.
Johnson, Garland A.; Gren, Joann M.;
Kupiecki, Rosemary, 1927
Johnson, George F. See Kiser, Ernest J.
Johnson, Harold D. See Davis, Thomas P.
Johnson, Jerome A.; Lott, John A., 1026
Johnson, LaVell R. See Reese, Max G.
Johnson, M. W. See Carter, R. J.
Johnson, M. W. See Carter, R. J.
Johnson, Roy B.; Nakamura, Robert M., 1170
Johnson, Wayne See Steiner, Michael C.
Johnson, Wayne See Steiner, Michael C.
Johnson, Wayne F. See Lee, Norman E.
Johnston, M. T. See Brody, Judy; Bruns, David
E.

Johnston, M. T. See Brody, Judy; Bruns, David E.
Jones, Glenville, 287
Jones, Kim; Oei, Tjien, 836
Jonsson, Svante See Mattiasson, Bo
Josep, Barbara See Phillips, Richard N.
Joseph, Jean Curley; Brezis, Paul; Bermes,
Edward W., 1016
Joyce, Brian G.; Wilson, Douglas W.; Read,
Graham F.; Riad-Fahmy, Diana, 2099
Jubiz, William: Nolan, George, 826
Jukofsky, D. See Mule, S. Joseph
Jukofsky, Dennis See Kogan, Michael J.
Jung, G.; Ferard, G., 873
Jutzy, R. V. See Berk, L. S.
Kaback, Michael M., 966
Kabakoff, D. S.; Leung, D.; Singh, P., 1055
Kabra, Pokar M. See Blanckaert, Norbert;
Farina, Francis A.; Gotelli, George R.
—; Koo, Howard Y.; Marton, Laurence J.,
1006
Locality A.; Skupumbits D.; Paringes C. 1046
Karality A.; Skupumbits D.; Paringes C. 1046

—; McDonald, Donna M.; Marton, Laurence J., 1006
Kagali, V. A.; Slaunwhite, D.; Reynoso, G., 1048
Kagedal, Bertil; Sandstrom, Arne; Tibbling,
Gunnar, 1744
Kahan, Barry See Woo, Jannie
Kahn, Sidney N.; Thompson, Edward J., 1014
Kam, Jean K. See Rodgers, Richard
Kameda, N. See Harte, R.
Kamoun, P.; Douay, O., 2033
Kan, B. See Stong, Linda J.
Kanai, Shozo See Inada, Yuji
Kaplan, L. See Miller, J. A.
Kaplan, L. See Miller, J. A.
Kaplan, L. A.; Stein, E. A.; Wesselman, A., 1051
Karinkanta, Hannu H.; Nieminen, Erkki J.,

Karmen, Arthur See Lasky, Fred D.; Lent, Richard W. Kato, Takeshi; Hama, Tokiko; Kojima, Kohichi; Nagatsu, Toshiharu; Sakakibara, Shumpei, 1163

Nagatsu, 1 Osninaru; Sakakidara, Shumper, 1163
Kattan, Daisy, 2214
Kavanaugh, John See Steiner, Michael C.
Kawahara, Wanda See Hargis, Gary K.
Kaye, M. See Aleyassine, H.
Kayne, Frederick J.; Komar, G.; Laboda, H.;
Vanderlinde, Raymond E., 2151
Kehrwald, J. M. See Di Bella, F. P.
Keller, Roger See Shearer, Mark R.
Kelley, Mari-Lou See Bowers, George N., Jr.
Kelley, T. F. See Bergkuist, C.
Kellogg, T. L. See Ryder, K. W.
Kelly, Anthea See Munan, Louis
Kelly, Raymond C.; Prentice, Donald E.;
Hearne, Gregory M., 838
Kelsen, D. P. See Alcock, N. W.
Kelson, James R.; Shamberger, Raymond J.,
240

940

240

Kenney, John A., Jr. See Chakrabarti, Siba G. Kenney, John A., Jr. See Chakrabarti, Siba G. Kenney, Margaret A. See Brautigan, Vicky M.; Graham, Gary Kerenyi, T. See Beers, P. C. Kerkay, Julius See Lewis, Larry M. Kern, Carl W. See Schall, Roy F., Jr. Kessler, G. See Tieber, V. L. Kessler, Gerald See Hewitt, Thomas E. Keyes, Melvin H. See Barbarbino, Raymond C. Keyser, James; Kohn, Joarchim; Riches, Pamela; Smith, Arthur M.; Thompson, Ronald A.; Ward, Anthony Milford; White, Peter, 531

Ronald A.; Ward, Anthony Milford; White, Peter, 531
Khanna, Pyare L. See Eimstad, Wendy M.; Rodgers, Richard Khayam-Bashi, H. See Liu, T. Z.—; Willson, Susan E., 1049
Kibbey, William E. See Marenberg, Stanford P. Kiesow, L. A. See Hickey, T. M. Kilbert, L. H.; Nathan, L., 1015
Killingsworth, L. M., 728
—; Cooney, S. K., 1064
Kim, Frank See Carter, Edward A. Kim, M. See Wong, L. G.
Kincaid, H. L. See Jawad, M. J.—, 1034
King, J. S., 185, 399, 527, 735, 846, 1091, 1294, King, J. S., 185, 399, 527, 735, 846, 1091, 1294,

—, 1034 King, J. S., 185, 399, 527, 735, 846, 1091, 1294, 1433, 1658, 1863, 2077, 2223 King, M. See Meiattini, Franco King, Paul See Albers, John J.

Kingsley, Sheila See Dix, Douglas Kinnear, Nikki L. See Kramer, William G. Kirkish, Lorraine S.; Barclay, Mel L.; Parra, Juan B.; Compton, Alan A.; McCann, Daisy

S., 1830 Kiser, Ernest J.; Johnson, George F.; Witte,

David L., 536
Kissinger, P. See Yu, Leisure
Kita, Masami See Noma, Akio
Kitaman, M. See Silverman, Lawrence M.
Kiyasu, John Y., 2064
Klegerman, Melvin E.; McDonald, Hugh J.,

Klein, Bernard; Jeunelot, Carol Lynne, 988

Klein, Bernard; Jeunelot, Carol Lynne, 988

; Jeunelot, Carol Lynne, 2188
Kleinhammer, G.; Deutsch, G.; Linke, R.;
Staehler, F., 1033
Klose, Sigmar; Stoltz, Michael; Munz,
Eberhard; Portenhauser, Rudolf, 250

; Schlumberger, Helmut, 1421

; Schlumberger, Helmut; Drobeck, Kurt, 1425
Knight, David R.; Trainer, Thomas D., 1851
Knight, J. A. See Haymond, R. E.
Knight, James See Broughton, Alan
Knoblock, Edward C. See Novros, Joel S.
Knoke, K.-J. See Sundaram, P. V.
Knott, Lancaster B. See Werner, Mario
Knox, Robert J. See Blume, Philip

Knott, Lancaster B. See Werner, Mario Knox, Robert J. See Blume, Philip Knudsen, Wilhelm Koch; Arnfred, Terkel; Dyerberg, Jorn; Fogh, Kaj, 515 Knudson, Eric J.; Lau, Youlan C.; Veening, Hans; Dayton, David A., 686 Knutzen, V. See Beers, P. C. Kobayashi, Hiroshi See Mendenhall, Douglas W.

Koch, Thomas R. See Novros, Joel S. Koch-Weser, Jan See Bohlen, Peter Koehler, Donald F.; Steele, Bernard W.; Azar, Miguel M.; Kuba, Kanta; Dempsey, Mary E., 326

E., 326
Koellmann, U. T.; Nelson, J. W., 1062
Kogan, Michael J. See Mule, S. Joseph
—; Jukofsky, Dennis; Verebey, Karl; Mule, S.
Joseph, 1425
Kohl, H. H. See Brownlee, N. R.
—; Friedman, M. E.; Brownlee, N. R., 1004
Kohl, Herbert H.; Telander, David H., Jr.;
Roberts, Eugene C.; Elliott, Howard C., Jr.,
174

174
Kohn, Joarchim See Keyser, James
Kojima, Kohichi See Kato, Takeshi
Kolodny, Edwin H. See Friedman, Robert B.
Komar, G. See Kayne, Frederick J.
Komarmy, Louis See Fogh-Andersen, Niels
Konturi, Matti See Vihko, Pirkko
Koo, Howard Y. See Kabra, Pokar M.
Korhonen, L. Kalevi See Vihko, Pirkko
Koup, Jeffrey R. See Shull, Bruce C.
Kovacs, H. See Beers, P. C.
Kowalski, Patricia See Buhl, Steven N.
Kowarski, Benjamin See Crouthamel, William
G.

Kozak, C. M. See Bondo, P. B.; Pranskevich, C.

Kozelt, S. J. See Chin, B. H. Kozier, Joanne See Frohlich, Jiri Kozlowski, Christine A. See Devine, Joseph E. Kramer, William G.; Kinnear, Nikki L.;

Morgan, H. Keith, 155 Kraml, M.; Robinson, W. T., 169 Kranc, M. C.; Foreback, C. C.; Cruz, C., 1012 Kream, Jacob; Fukushima, David K.; Zumoff, Barnett, 994

Kristensen, H. Harbo, 1288
Kritchevsky, David See De Hoff, Janet L.;
Touchstone, Joseph C.
Kronvall, Goran See Mattiasson, Bo
Kruse-Jarres, J. D. See Trendelenburg, Chr.

., 994
Krutzik, S.; Segre, G.; Potts, J., Jr., 993
Ku, Laureen See Tria, Michael
Kuba, Kanta See Koehler, Donald F.
.; Weidman, Stuart; Arnett, Herman; Wood,
Peter; Shlagenhaft, Anne, 853
Kubasik, Norman P.; Sine, Harrison E., 137
.; Ginney, William; Warren, Karen; D'Souza,
John P.; Sine, Harrison E.; Brody, Bernard
B. 999

B., 999

-; Graham, Margaret; Warren, Karen; Sine,

- Granam, Margaret; Warren, Karen; Sine, Harrison E., 1042
-; Ricotta, Margaret, 1426
-; Guiney, William; Warren, Karen; D'Souza, John P.; Sine, Harrison E.; Brody, Bernard B., 2047

B., 2047
Kulchinski, Linda See Schiller, Harvey S.
Kulchinski, Linda See Schiller, Harvey S.
Kulhanek, V. See Chromy, V.
Kumar, Manjula S.; Braun, William; Deodhar,
Sharad D., 995
Kumar, Satyendra See Pesh-Imam, Munir
—; Pesh-Imam, Munir; Willis, Charles E., 1018
Kuo, Kenneth C. See Davis, Thomas P.
—; Cole, Thomas F.; Gehrke, Charles W.;
Waalkes, T. Phillip; Borek, Ernest, 1373

Kupiecki, Rosemary See Johnson, Garland A. Kushinsky, S.; Mirrasoul, M., 1052
Kusukawa, R. See Wada, M.
Kwak, Y. S.; Akers, E.; Turner, O., 1061
Laakso, K. See Di Bella, F. P.
Labbe, Robert F. See Piepkorn, Michael W.
Laberge, Claude, 967
Labda, H. See Kayne, Frederick J.
LaBrie, James See Gerson, Benjamin
Lacher, David A.; Valdes, R.; Savory, J., 1058
Ladden, Paul J. See Baker, Anna Marie K.;
Winiarski, Ralph J. L.; Strenk, Gerald A.;
Winiarski, Ralph J. L.; Ladenson, Jack H. See McDonald, Jay M.
—; McDonald, Jay M.; Bruno, David E.; Mauck, John C., 815
Laessig, R.; Hassemer, D.; Hoffman, G., 1049
Laessig, Ronald H. See Narayanan, Sheshadri
Lai, Linda C. See Lam, William K. W.
Lam, C. W. K.; Tan, I. K., 143
Lam, William K. W.; Lai, Linda C.; Yam, Lung T., 1058
—; Yam, Lung T., 1048
—; Eastlund, D. Ted; Li, Chin-Yang; Yam, Lung T., 1105; Chen, Julia; Taft, Edwin; Yam, Lung T.,

T., 1105

T., 1105

-; Chen, Julia; Taft, Edwin; Yam, Lung T., 1177

Lamb, Adrian J. See Anzano, Mario A.

Landis, John B.; Pardue, Harry L., 1022

-; Pardue, Harry L., 1690

-; Pardue, Harry L., 1700

Landon, John, 872

Langen, Hobb See Browdton, Alen

Langen, Lobb See Browdton, Alen

Langen, Lobb See Browdton, Alen

Langan, John See Broughton, Alan Langan, John See Broughton, Alan Lannuzzelli, Vincent F. See Lin, Fu C. Lantz, Robert K.; Eisenberg, Richard B., 486 —; Eisenberg, Richard B., 821, 1059

-; Elsenberg, Richard D., 621, 1099 Laragh, John H., 280 Larsen, James W.; Lawson, Robert, 1061 Larson, Frank C. See Cembrowski, George S.; Durbridge, Timothy C. Larson, Lasse See Ohman, Sten

Durbridge, Timothy C.

Larsson, Lasse See Ohman, Sten

-: Ohman, Sten, 731

-: Ohman, Sten, 1962

Lasky, Fred D.; Karmen, Arthur, 1285

-; Razi, Jamil Al; Karmen, Arthur, 1381

Lassman, M. N. See Hopkins, J. A. Clayton

Lau, Youlan C. See Knudson, Eric J.

Lawless, Oliver J. See Berne, Bernard H.

Lawson, Robert See Larsen, James W.

Lea, D. J., 388

Least, Charles J. See Onge, Linda St.

Ledford, Mary Edith; Moore, Gerald L.;

Bensinger, Thomas A., 517

Lee, Kyung-Dong See McIntosh, Max E.

-; Dinovo, Eugene C.; McIntosh, Max E.; Jynn,

Jerry K., 1036

Lee, Norman E.; Genung, Richard K.; Johnson,

Wayne F.; Mrochek, John E.; Scott, Charles

D.; Tiffany, Thomas O., 1064

-; Genung, Richard K.; Johnson, Wayne F.;

Mrochek, John E.; Scott, Charles D., 1361

Lehnus, Gary L.; Smith, Lynn M., 27

-; Smith, Lynn M., 1019

Lehrer, Michael, 990

Leiendecker, Catherine See Eckfeldt, John

Leiendecker, Catherine See Eckfeldt, John Leiendecker, Catherine M. See Bruce, A.

Wayne Leighton, Richard F. See Newman, Howard A.

Leijnse, B. See Boerma, G. J. M.; IJpma, S. T. Lennette, E. Paul See Jacks, Edwin H. —; Jacks, Edwin H. —986
Lent, Richard W.; Karmen, Arthur, 1045
Leon, L. P. See Toney, V.; Varady, R. —; Smith, J. B.; Snyder, L. R.; Horvath, C., 1023
Lepp, Cyrus A.; Bluestein, Barry I., 1021
Letellier, Guy See Daigneault, Rejean
Leto, D. A. See Shamberger, R. J.
Leung, D. See Kabakoff, D. S.
Leung, F. Y.; Henderson, A. R., 1036
Leung, Mary See Husdan, Harry
Levin, Victor A. See Weinkam, Robert J. —, 970
Levinson, Stanley S., 2199

Levin, Victor A. See Weinkam, Robert J.

970
Levinson, Stanley S., 2199
Levy, Gabor B. See Eppstein, Lee B.
Levy, Micha See Zylber-Katz, Ester
Lewis, C. M. See McGown, Evelyn L.
Lewis, Johnson, Dennis C.

Johnson, Dennis C., 1711
Lewis, John E. See Ashby, C. Dennis
Lewis, L. A. See Wada, M.
Lewis, Larry M.; Flechtner, Thomas W.;
Kerkay, Julius; Pearson, Karl H.;
Nakamoto, Satoru, 741
Lewis, Lena A.; Naito, Herbert K., 2081
Lewis, S. A. See Van Steirteghem, Andre C.
Lewis, Sue See Boone, Joe

Boone, Joe; Hearn, Tom; Woehst, Jim, 1032

Lewis, Susan See Iosefsohn, Mariet Lewis, Susan A. See Buffone, Gregory J. L'Heureux, Maurice V. See Rosecrans,

Li, Chin-Yang See Lam, William K. W. Li, Philip K. See Shull, Bruce C. —; Humbert, James R.; Cheng, Chao-Shing,

-; Tracz, Gordon T.; Bock, Gregory M.; Ryan,

-; Tracz, Gordon T.; Bock, Gregory M.; Ryan, W. T., 2217 Lichti, Donald A. See Finley, Paul R. Liddle, J. A. See Burse, V. W. Lieber, Charles S., 976 Liedtke, Raymond J. See Rautela, Gopal S. -; Busby, Barbara: Batjer, John D., 161 -; Greaves, John P., Jr.; Batjer, John D.; Busby, Barbara, 1100

—; Busby, Barbara; Batjer, John D., 161
—; Greaves, John P., Jr., Batjer, John D.; Busby, Barbara, 1100
Lien, York Y. See Sun, Tsieh
Liewendahl, Kristian See Adlercreutz,
Herman; Wells, Henry J.
Lillig, J. See Baldwin, J. R.
Lim, F.; Lynch, R. L., 1003
—; Sharpe, A. R., Jr., 1040
Lin, Fu C.; Fay, Anthony; Lannuzzelli, Vincent
F.; Narayanan, Sheshadri, 1019
Linke, R. See Kleinhammer, G.
Linn, Shirley Y. See Schusert, Richard M.
Lippel, Kenneth See Ahmed, Sue
—; Ahmed, Susan; Albers, John J.; Bachorik,
Paul; Muesing, Richard; Winn, Carole, 1477
Liu, T. Z.; Khayam-Bashi, H., 997
Liungdahl, Lars; Gerhardt, Willie, 832
Lióyd, B. See Foster, K. J.
Lloyd, Barbara; Burrin, Jacqueline; Smythe,
Patricia; Alberti, K. G. M. M., 1724
Loeffler, K. L. See Brookes, L. G.
Loftin, L. See Schusertz, M. K.
Logan, J. E. See Pelletier, Omer
Lohff, Martin R.; Bauman, Mitchel D., 1854
Lohmann, Herman J. See Proelss, Henning F.
—; Proelss, Henning F.; Miles, Daniel G., 1006
Loiselle, J. M. See Belles-Isles, M.
Loken, Hans F.; Arnaud, Sara B.; Rehfeld,
Selewn J., 2066
Lolekha, Porntip H.; Chantarothipol, Vivat;
Wongvibulsin, Aroon, 1578

Lolekha, Porntip H.; Chantarothipol, Vivat; Wongvibulsin, Aroon, 1578 London, Jack W. See Shaw, Leslie M.

Long, James P., 391 Long, Rita; Delaney, Kathleen K.; Siegel, Lewis,

Loug, Khui, Denaley, Kathleen K.; Siegel, Lewis, 842

Longfield, A. K. See Shamberger, R. J.
Loog, J. A. See de Jong, E. B. M.
Lott, John A. See Grannis, George F.; Johnson, Jerome A.; Marenberg, Stanford P.;
O'Donnell, Nickolas; Picard, Russell A.

; Turner, Kathie; Scott, Jacqueline, 938

; Heinz, John W., 1047

Louderback, Allan See Szatkowski, Paul
Lowry, J. D.; Forsythe, J. G.; Bree, R. F., 1009

Lowry, Larry K.; Meyer, Channing R.; Peteet, David D., 1012

Lox, Charles D.; Heine, M. W.; Maciulla, Gregory J.; Corrigan, James J., 1053

Loza, Debra See Albert, Jerry

Lubin, A. H. See Caffo, A. L.

Lukree, Aron; Manfredi, Orlando L.; Gross, Ludwig, Gregory, Doreen, 1026

Lum, Gifford See Henry, Veronica

; Manis, Thomas; Zeig, Steven; Friedman, Eli A., 1045

Manis, T A., 1045 Lundberg, George D. See Walberg, Clifford B. Luster, Michael I.; Albro, Phillip W.; Chae, Kun; Clark, George; McKinney, James D.,

Augustarten, J. A.; Wenk, R. E.; Byrd, C.; Hall, B.; Pezzuto, J.; Patterson, D., 1062
Lustig, V.; Redman, L. W., 989
Luthy, David A. See Schiller, Harvey S.
Lynch, R. L. See Lim, Eugene C.
Lynn, J. K. See Dinovo, Eugene C.
Lynn, Jerry K. See Lee, Kyung-Dong;
McIntosh, Max E.; McIntyre, Joyce A.
Mabbu, P. R. See Jibril, Abbas O.
McBride, James H.; Truong, Khai, 2207
McCann, D. S. See Eng, F.
McCann, Daisy S. See Huber, Marla J.;
Kirkish, Lorraine S.

Kirkish, Lorraine S. McCarrick, Maureen H. See Macfarlane, Richard E.

Richard E.

McComb, Robert B. See Bowers, George N., Jr.

-; Flood, James G.; Toffaletti, J.; Bowers,
George N., Jr., 1050

McConathy, Walter J. See Curry, Michael D.
McCready, Jill: Braunstein, Glenn D.; Helm,
Douglas; Wade, Maclyn E., 1958

McCroskey, Ralph P., 2210

McCvue, Susan See Howell, Barbara F.

McDonald, Donna M. See Kabra, Pokar M.
McDonald, Hugh J. See Klegerman, Melvin E.
McDonald, J. M. See Tieber, V. L.
MacDonald, James A. See Smith, Randolph H.
McDonald, Jay M. See Ladenson, Jack H.

-; Ladenson, Jack H., 1603

McDonald, Lester J. See Siegel, Lewis —; Robin, Noel I.; Siegel, Lewis, 652 Macfarlane, Richard E.; McCarrick, Maureen

—; Kodin, Noel I.; Siegel, Lewis, 592
Macfarlane, Richard E.; McCarrick, Maureen
H.; Twomey, Stanley L., 993
McGlothlin, C. David See Cate, J. C., IV;
Christenson, Robert H.
—; Hedrick, R.; Cate, J. C., IV; Taylor, M., 1064
McGown, Evelyn L.; Lewis, C. M.; Dong, M.
H.; Sauberlich, H. E., 2186
McGrath, Christine See Rej, Robert
McGrath, Christine See Rej, Robert
McGrath, W. P. See Fortier, Raymond
McIntosh, Max E. See Dinovo, Eugene C.; Lee,
Kyung-Dong; McIntyre, Joyce A.
—; Lee, Kyung-Dong; Dinovo, Eugene C.; Lynn,
Jerry K., 1028
McIntyre, Joyce A.; Black, Maureen;
McIntosh, Max E.; Lynn, Jerry K., 171
Maciulla, Gregory J. See Lox, Charles D.
McKenzie-Benson, C. P. See Hannon, W.
Harry

McKenzie-Benbun, C. F. Scott, Daniel F., 1016 Harry McKiel, Robert R., Albertson, Daniel F., 1016 McKinney, James D. See Luster, Michael I. McKneally, S. See Hannon, W. Harry McKneally, Sarah S. See Burtis, Carl A.;

McKneally, Sarah S. See Burtis, Carl A.;
Sampson, Eric J.
McMenamy, R. H. See Yu, Leisure
McMurray, C. H.; Blanchflower, W. J., 344
McQueen, M. J. See Brown, P.
—; Mori, L.; Dey, Elspeth, 519
Maddrey, W. See Gerson, B.
Maeda, Hiroshi, 2139
Magearu, V. G. See Schick, K. G.
Magnussen, Ib See Engback, Frode
Magri, Andrea Domenico See D'Ascenzo,
Giusedde

Magnussen, Ib See Engbaek, Frode
Magri, Andrea Domenico See D'Ascenzo,
Giuseppe
Maguire, Kay P.; Burrows, Graham D.;
Norman, Trevor R.; Scoggins, Bruce A., 549
Malkus, H. See Dittmar, D.
Malkus, H. L. See Mittleman, R.
Malkus, Herbert See Castro, Albert
Malley, Arthur See Blume, Philip
Malone, Jane Sexton; Besemer, Donald, 1056
Malya, P. A. Govinda; Savidge, Ronald, 1052
Mamaril, Francisco P.; Roy, Swapan K., 1034
—; Gold, Mark; Roy, Swapan K., 1042
Mandel, John See Valapoldi, Rance A.
Manfredi, Orlando L. See Lukrec, Aron
Mangubat, Elmer A.; Hinds, Thomas R.;
Vincenzi, Frank F., 635
Manis, Thomas See Lum, Gifford
Manley, K. Alan See Sostman, Henry E.
Mann, Lewis T., Jr., 390
Manraj, B. See Ersser, R. S.
Mansbach, Lillian See Akerkar, Anand
Mantell, C. A. See Blumenfeld, T. A.
Mao, E. See Ash, K. Owen
Mao, Elaine See Wu, James
Marde, Yvonne; Ryhage, Ragnar, 1720
Mardell, Richard; Gerson, Marion, 1792
Marenberg, Stanford P.; Lott, John A.; Pflug,
Brian K.; Kibbey, William E.; Carey, Larry
C., 881
Margeviciene, L. See Boerma, G. J. M.

C., 881

Marks, V. See Al-Bassam, M. N.
Marmor, A.; Alpan, G., 2206
Marshall, Kathryn L.; Ladden, Paul J., 1017
Marsters, Roger W. See Price, J. Waide
Martin, D. See Martz, P.

—; Burke, L.; Nordin, W.; Chen, S., 991
Martin, Gary See Silverman awrence M.
Marton, Laurence J. See Blanckaert, Norbert;
Gotelli, George R.; Kabra, Pokar M.

—, 974

Martz, P.; Martin, D.; Nordin, W.; Chen, S. C.,

Masdeu, S. See Ras, M. R. Mashige, Fumiko; Osuga, Toshiaki; Tanaka, Naomi; Imai, Kazuhiro; Yamanaka, Manabu, 1150 Mason, R. D. See Christine, Mary J.; Lepp,

Cyrus A.

Cyrus A.

Mather, A. See Boerma, G. J. M.

—; Bayse, D. D., 1040

Mathews-Roth, Micheline M., 700

Mathasson, Bo; Svensson, Karin; Borrebaeck,

Carl; Jonsson, Svante; Kronvall, Goran,

Mauck, John C. See Ladenson, Jack H. Maxon, H. R. See Chen, I. W. Mazza, John C.; Weaver, Terry L., 1001 Mebel, Moritz See Horpacsy, Geza Meiattini, Franco; Giannini, Giuliano; Tarli, Dobe 168

Meiattini, Franco; Giannini, Giuliano; Tarli, Paolo, 498

—; Bardelli, Fabrizio; Giannini, Giuliano; Prencipe, Lorenzo; King, M., 1026

—; Prencipe, Lorenzo; Bardelli, Fabrizio; Giannini, Giuliano; Tarli, Paolo, 2161

Melchert, H.-U.; Hoffmeister, H.; Brewster, Marge A.; Berry, D. H., 842

Mell, Leroy D., Jr.; Gustafson, Anthony B., 23

—; Gustafson, Anthony B., 1290

Melville, Robert S. See Scott, Charles D.

Mendelsohn, Mortimer L., 969
Mendenhall, Douglas W.; Kobayashi, Hiroshi; Shih, Fong Mei Lee; Sternson, Larry A.; Higuchi, Takeru; Fabian, Carol, 1518
Menduke, H. See Gerson, B.
Menendez-Botet, C. J. See Nisselbaum, J. S.
Menendez-Botet, Celia J.; Oettgen, Herbert F.;
Pinsky, Carl M.; Schwartz, Morton K., 868
Meola, John M.; Jast, Elizabeth; Brown, Harold H., 991, 162
Mercer, D. W., 1024
Mercer, D. W., 1024
Mercer, Donald W., 480
Messmore, Harry L. See Fareed, J.
Meyer, Carol J. See Fenimore, David C.
Meyer, Channing R. See Lowry, Larry K.
Meyer, Donna J. See Sanford, Karl J.
Mezei, Louis M. See Case, Richard V.
Michael, J. Mark See Ladenson, Jack H.
Michaels, Sybil See Bisera, Jose
Michels, Hilde See Versieck, Jacques
Mickle, Donald A. G.; Washington, George A.;
Porter, Charles J., 698
Mihalik, M. Carol See Rosenberg, Burton J.
Miles, Daniel G. See Lohmann, Herman J.;
Proelss, Henning F.
Miller, D. T. See Hainline, A., Jr.
Miller, J. A.; Kaplan, L.; Stein, E. A., 1061
Miller, J. G. See Chegwidden, Kaye; Fanciullo,
R. A.; Gushaw, J. B.; Izutsu, A.
Miller, Phillip See Weiss, Stephen
; Weiss, Stephen; Cornell, Martha, 999
Miller, Richard C. See Garber, Carl C.
Miller, Sheryl A. See Burtis, Carl A.; Sampson,
Eric J.
Minamisono, T. See Wada, M.
Mirrasoul, M. See Kushinsky, S.

Miller, Sheryl A. See Burtis, Carl A.; Sampson Eric J.

Minamisono, T. See Wada, M.

Mirrasoul, M. See Kushinsky, S.

Missen, A. W.; Gwyn, S. A., 2063

Mitchell, Blanche See Robinson, C. A., Jr.

Mitra, R. See Pape, B. E.

Mittleman, R.; Eustace, J. C.; Gardner, L. B.;

Malkus, H. L.; Wunsch, C. D., 1005

Miyada, D. See Sun, L.

Mohan, Mysore S.; Bates, Roger G.; Hiller,

John M.; Brand, Michael J., 580

Moline, Carolyn See Hofman, Lindsay F.

Monji, M. See Dittmar, D.

Monnens, Leo A. H. See Williams, Hans L.

Montessori, Gino A. See Algard, F. Thomas

Monthony, James F.; Wallace, Eric G.; Allen,

Diane M., 1825

Moody, John R. See Valapoldi, Rance A.

Moore, Gerald L. See Ledford, Mary Edith

Moore, John J. See Giegel, Joseph L.

—; Sax, Sylvan M., Narayanan, Sheshadri, 998

—; Sax, Sylvan M.; Narayanan, Sheshadri, 998

—; Sax, Sylvan M.; Narayanan, Sheshadri, 998

—; Sax, Sylvan M.; Blackburn, Arthur B., Jr.,

2213

Moore, M. See Sheehan, M.

Moore, M. See Sheehan, M. Moorehead, W. R.; Roy, A. V.; Thompson,

Marie, 1025
Moran, B. L. See Bergkuist, C.
Morgan, H. Keith See Kramer, William G.
Morgenstern, Stanley See Nix, Paul T.; Stong,

Linda J. Mori, L. See McQueen, M. J. Mori, Leonard, 1841 Morin, Leo G. See Jockers-Wretou, E. -, 1034

Morissette, Jean See Grenier, Andre Morris, Jeffrey; Collins, Phyllis; Fass, Leroy,

Morris, Jeffrey; Collins, Phyllis; Fass, Leroy, 1289
Morris, Raymond See Ellis, Graham
Mortensen, Esper, 663
Moser, Hugo W. See Friedman, Robert B.
Moss, D. W. See Bergmeyer, H. U.
Mott, Glen E.; Rogers, Michael L., 354
Mrochek, J. E. See Bostick, W. D.
Mrochek, J. E. See Bostick, W. D.
Mrochek, J. Ohn E. See Lee, Norman E.
Mueller, Hiltrud S. See Rao, Parinam S.
Muesing, Richard See Lippel, Kenneth
Mulé, S. Joseph See Kogan, Michael J.
—; Kogan, Michael J.; Jukofsky, D., 1473
Mullen, Dan, 174
Muller, H.; Brauer, H.; Resch, B., 706
Mulrow, P. J. See Tan, S. Y.
Munan, Louis; Kelly, Anthea; PetitClerc,
Claude; Billon, Bernard, 772
Munn, Maureen See Algard, F. Thomas
Munoz, J. M. See Jacob, R. A.
Munz, Eberhard See Klose, Sigmar
Muskiet, Frits A. J.; Fremouw-Ottevangers,
Dineke C.; van der Meulen, Jan; Wolthers,
Bert G.; de Vries, Jacques A., 122
—; Jeuring, Hans J.; Nagel, Gijs T.; de Bruyn,
Henk W. A.; Wolthers, Bert G., 1899
—; Fremouw-Ottevangers, Dineke C.; Nagel, Gijs
T.; Wolthers, Bert G.; de Vries, Jacques A.,
2001
Myers, C. M. See Cooper, G. R.

Myers, C. M. See Cooper, G. R. Myers, E. C. See Gruemer, H.-D.; Pickard, N.

Naewbanij, Jocelyn O. See Anzano, Mario A. Nagatau, Toshiharu See Kato, Takeshi Nagel, Gijs T. See Muskiet, Frits A. J. Naito, H. K. See Wuda, M. Naito, Herbert K. See Lewis, Lena A. Naka, Keiichi, 1288
Nakamoto, Satoru See Lewis, Larry M. Nakamura, Robert M. See Johnson, Roy B. Nakadka, K. See Wada, M. Nakatsu, Kanji See Owen, James A. Nandedkar, Arvind K. N.; Fairclough, Gordon F., Jr., 1035
Narang, Prem K. See Crouthamel, William G. Narayanan, Sheshadri See Lin, Fu C.; Moore, John J.; Peckauskas, Raymond A.

—; Laessig, Ronald H.; Westgard, James O.; Habig, Robert L.; Butts, William C., 1019
Naso, Ann-Marie See Fleischman, Alan I. Natelson, Samuel; Nobel, Deana, 1082

—; Tseng, Hsiu-Yu; Sherwin, John E., 2108
Nathan, L. See Kilbert, L. H.
Nathan, Lawrence E., Jr. See Perlstein, Marie T.

T.
Nation, Roger L. See Chiou, Win L.
Nation, Ruth See Geiger, Benjamin
Naylor, Edwin W. See Orfanos, Adam P.
Needham, L. L. See Burse, V. W.
Needham, Larry L. See Rollen, Z. Joyce
Neese, Jame W.; Robinson, Mary K.; Bayse,
David D., 1048
Nelis, H. J. C. F.; De Leenheer, A. P., 1005
Nelson, Gilbert H. See Spencer, W. William
Nelson, J. W. See Koellmann, U. T.
Nelson, Jerald C. See Ashby, C. Dennis; Roy,
Samir

Samir
Neri, Bruce P. See Feld, Ronald D.
Neufeld, Harold A. See Pace, Judith A.
Newman, David A. See Shaw, Leslie M.
Newman, Howard A. I. See Jenny, Richard W.;
Saat, Yeheskel A.
—; Leighton, Richard F.; Lanese, Richard R.;
Freedland, Neil A., 541
Nezu-Nakayama, Kelko See Noma, Akio
Nicol, David See Graham, Gary
Nielsen, Leonard G.; Ash, K. Owen; Thor,
Elizabet, 348

Nielsen, Leonard G.; Ash, K. Owen; Thor, Elizabet, 348 Nieminen, Erkki J. See Karinkanta, Hannu H. Nilsson, Kjeli; Olsson, Jan-Edvin, 1130 Nilsson-Ehle, Ingrid; Nilsson-Ehle, Peter, 365 Nilsson-Ehle, Peter See Nilsson-Ehle, Ingrid Nishimoto, Miyako See Alexander, Nicholas M. Nisselbaum, J. S.; Helson, L.; Fleisher, M.; Menendez-Botet, C. J.; Schwartz, M. K.,

1003

menencez-botet, C. J.; Schwartz, M. K.,
1003
Niswender, Gordon D. See Endres, David B.
Nix, Paul T.; Goldfarb, Rebecca D.; Stong.
Linda J.; Morgenstern, Stanley; Trivedi,
Ramesh C., 1000
Nobel, Deana See Natelson, Samuel
Nolan, George See Jubiz, William
Noma, Akio; Nezu-Nakayama, Keiko; Kita,
Masami; Okabe, Hiroaki, 1504
Nordin, W. See Martin, D.; Martz, P.
Nordschow, Carleton D. See Glick, Melvin R.
Norman, Trevor R. See Maguire, Kay P.
North, James W.; Chittenden, Carol G., 1009
Northam, Barry E. See Pinnell, Andrew E.
Noth, R. See Tan, S. Y.
Noto, Thomas See Castro, Albert
Novak, Heidi See Fareed, J.
Novotny, Milos See Smith, Sharon L.
Novros, Joel S.; Koch, Thomas R.; Knoblock,
Edward C., 1022
Obernolte, Ronald; Sherwin, John E., 1058
Oddl W. D. See Haber, D.

Obernolte, Ronald; Sherwin, John E., 1058 Odell, W. D. See Heber, D. O'Donnell, C. Michael; Rodgerson, Denis O.,

1653
O'Donnell, Nickolas; Lott, John A., 1004
Odstrchel, G. See Christine, Mary J.;
Schoemaker, H. J.
Oei, Tjien See Jones, Kim
Oei, Tjien O. See Glick, Melvin R.
Oel, T. O. See Ryder, K. W.
Oettgen, Herbert F. See Menendez-Botet,

Oge, Elizabeth Kraus; Polonus, Patricia A., 1086

1086
O'Gorman, P. See Patal, Shanta
Ohman, Sten See Patal, Shanta
Ohman, Sten See Larsson, Lasse

-: Larsson, Lasse; Demetriou, Leslie, 2070
Okabe, Hiroaki See Noma, Akio
Okabe, M. See Wada, M.
Okamoto, Hiroshi See Inada, Yuji
Okkerse, John B., Jr.; Cano, Carlos, 1017
Olansky, Ad S.; Deming, Stanley N., 2115
Oliva, J. See Delea, A. C.
Olive, Ag, Georges See Gerbaut, Lucile
Olsson, Jan-Edvin See Nilsson, Kjell
Onge, Linda St.; Dolar, Eugenia; Anglim, Mary
Ann; Least, Chalres J., 990
Oreopoulos, Dimitrios See Husdan, Harry
Orfanos, Adam P.; Naylor, Edwin W.; Guthrie,
Robert, 591

Robert, 591

Osaki, S. See Chen, Chin-Chun; Uppal, S. S. Osberg, Iris M. See Daugherty, Ned A. —; Hammond, Keith B., 1196 —: Hammond, Keith B., 1196
Osterberg, Siw: Rosen, Stina; Heby, Olle, 769
Osuga, Toshiaki See Mashige, Fumiko
O'Sullivan, M. J. See Al-Bassam, M. N.
Owen, James A.; Nakatsu, Kanji, 367
Pace, Judith A.; Wannemacher, Robert W., Jr.;
Neufeld, Harold A., 32
Page, M. See Belles-Isles, M.
Painter, Kent See Endres, David B.
Panijpan, Bhinyo See Rungruangsak, Krisna
Pantlik, Violet A. See Walberg, Clifford B.
Papadopoulos, Nick M., 227
Pape, B. E.; Whiting, R.; Parker, K. M.; Mitra,
R., 2020

Pardue, Harry L. See Davis, Robert B.; Felkel, Hugo L., Jr.; Landis, John B. Paris-Kutt, H. See Pippenger, C. E. Parker, K. M. See Pape, B. E. Parker, Nancy C.; Crouse, S. P.; Cross, R. E.,

Parra, Juan See Huber, Marla J. Parra, Juan B. See Kirkish, Lorraine S. Parra, Kathryn; Chan, Daniel W.; Frye, Roger,

Partain, C. L.; Hammond, John E., 1284 Pascual, C.; Segura, R. M.; Schwartz, S.; Van Lente, Frederick; Galen, Robert S., 729 Passey, Richard B. See Athanassiadis, Sophia;

Passey, Richard B. See Athanassiadis, Sophia; Hardin, Eugene Patal, Shanta; O'Gorman, P., 1856
Patel, Harini; Cohen, Burton D., 1013
Paterson, Colin R. See Dixon, Marian
Patt, D. See Hoover, D.
Patterson, D. See Lustgarten, J. A.
Patterson, M. C. See Brown, P.
Paul, Emma uuel M. See Demers, Laurence M.
Paule, Robert C. See Valapoldi, Rance A.
Paulev, Poul-Erik; Solgaard, Poul; Tjell, Jens
Christian, 1797
Pawar, G. B.; Todai, N. K.; Jaffar, M. B., 1847
Paxton, J. W.; Rowell, F. J.; Cree, G. M., 1534
Pay, Gerald D. See Reese, Max G.
Peake, Michael J.; Sontrop, Mary E.; Fraser,
Callum G., 2026

Callum G., 2026 Pearson, J. Richard, 1031, 1823 Pearson, Karl H. See Lewis, Larry M.; Pleban,

Peat, Michael A. See Chinn, Dennis M. Peat, Michael A. See Chinn, Dennis M.
—; Jennison, Thomas A., 2166
Pecci, Joseph; Giovanniello, Thomas J., 1852
Peckauskas, Jeanette See Peckauskas,
Raymond A.
Peckauskas, Raymond A.; Peckauskas,
Jeanette; Portnoy, Alan L.; Narayanan,
Sheshadri, 1036

Seanette, Torthoy, Alan L.; Narayanan, Sheshadri, 1036
Peeters, T. L.; Depraetere, Y. R.; Vantrappen, G. R., 2155
Pelletier, Omer; Pryce, Fred; Logan, J. E., 1021
Pelton, Jackson R. See Eastman, John W. Peltonen, Leena See Vihko, Pirkko
Peng, Geoffrey W. See Chiou, Win L., 367
Penry, J. K. See Pippenger, C. E. Penton, James See Williams, George Z. Penton, Zelda; Bissell, Glenn, 504
Penzer, Daniel See Christine, Mary J. Pequignot, Henri See Gerbaut, Lucile
Percy-Robb, I. W.; Simpson, D.; Taylor, R. H.; Whitby, L. G., 146
Perera, Swarna See Silverman, Lawrence M. Perlstein, Marie T.; Weitz, Ann K.; Nathan, Lawrence E., Jr., 1039
Perry, Billy; Doumas, Basil; Jendrzejczak, Bernadine, 1035

Lawrence E., Jr., 1039
Perry, Billy; Doumas, Basil; Jendrzejczak,
Bernadine, 1035
Perry, Brian See Ballantyne, Fiona C.
Perry, David E. See Whicher, John T.
Persijn, J. P.; van der Slik, W., 727
Persson, Anders V. See Russo, Salvatore F.
Pesh-Imam, Munir See Kumar, Satyendra
—; Kumar, Satyendra; Willis, Charles E., 2044
Peteet, David D. See Lowry, Larry K.
Peter, F.; Growcock, G.; Strunc, G., 1515
Petersen, Lorette E. See Shaw, Leslie M.
Peterson, Robert G. See Blair, Doyce
Petificlerc, Claude See Munan, Louis
Petrehn, Jeffrey See Scoggin, Diane
Pezzuto, J. See Lustgarten, J. A.
Pfleiderer, G. See Jockers-Wretou, E.
Pflug, Brian K. See Marenberg, Stanford P.
Phillips, Julius C. See Hammond, John E.
Phillips, Richard N.; Satenstein, Lila; Wang,
Ming-Chung; Jose, Barbara; Walsh, Philip
R., 1018
Picard, Russell A.; Gruemer, Hanns-Dieter;

Picard, Russell A.; Gruemer, Hanns-Dieter; Lott, John A., 1083 Pickard, N. A. See Gruemer, H.-D.; Verrill, H.

...; Gruemer, H.-D.; Verrill, H. L.; Isaacs, E. R.; Robinow, M.; Myers, E. C., 1027 Pickering, Larry K. See Broughton, Alan Piel, Gerald, 965

Piepkorn, Michael W.; Hamernyik, Peggy; Labbe, Robert F., 1751

Pincus, Frances E. See Silverman, Lawrence

Pinio, Samuel: Hayward, David; Twomey, Stanley L., 1039
Pinnell, Andrew E.; Northam, Barry E., 80
Pinsky, Carl M. See Menendez-Botet, Celia J.
Pippenger, C. E.; Paris-Kutt, H.; Penry, J. K.,
1050

Pirio, M. R. See Chegwidden, Kaye; Fanciullo,

Pirio, M. R. See Chegwidden, Kaye; Fanciullo, R. A.; Izutsu, A. Pitkin, Roy M. See Hargis, Garv, R. Pleban, Patricia; Pearson, Karl H.; Shamberger, Raymond J., 1031 Plesher, Charles J., 2036 Pollard, A. See Suria, D. Pollard, A. C. See Fellenberg, A. J. Pollock, James See Vasiliades, John Polonus, Patricia A. See Oge, Elizabeth Kraus Pope, W. T.; Caragher, T. E.; Grannis, G. F., 1050 Porte, Daniel, Jr. See Evans, Marilyn I.

1050
Porte, Daniel, Jr. See Evans, Marilyn I.
Portenhauser, Rudolf See Klose, Sigmar
Porter, Charles J. See Mickle, Donald A. G.
Porter, William H.; Roberts, Robert E., 1620
Portnoy, Alan L. See Peckauskas, Raymond A.
Posner, J. See Fleisher, M.
Postle, A. See Foster, K. J.
Potgieter, Gideon M. See Burger, Floris J.
Potter, J. L. See Jaberg, C. E.
—; Seguin, F. W.; Sreenivasan, V. V., 1044
Pottgen, Paul See Davis, E. R.
Potts, J., Jr. See Krutzik, S.
Powers, Donald M.; Vanderlinde, Raymond E.,
1036
Powers, James L.; Sadee; Wolfgang. 299

Powers, James L.; Sadee; Wolfgang, 299 —; Sadee, Wolfgang, 1007 Pranskevich, C. A.; Kozak, C. M., 1044 Pranskevich, C. A.; Kozak, C. M., 1094
Pratt, J. J., 1869
Prencipe, Lorenzo See Meiattini, Franco
Prenticc, Donald E. See Kelly, Raymond C.
Price, J. Waide; Marsters, Roger W., 1647
Price, R. G. See Corbett, C. R. R.
Procsal, Dana; Stewart, Charles; Zell, Wilbert,
1041

Price, J. Walde; Marsters, Roger W., 1647
Price, R. G. See Corbett, C. R. R.
Procsal, Dana; Stewart, Charles; Zell, Wilbert, 1041
Proelss, Henning F. See Lohmann, Herman J.

—; Lohmann, Herman J.; Miles, Daniel G., 1948
Pryske, Gary J.; Bonderman, Dean P., 1924
Prybyla, Judith A. See Hobey, William D.
Pryce, Fred See Pelletier, Omer
Pryce, J. D. See Savory, D. J.
Przybylowicz, E. P., 1008
Pu, George C. See Bogdan, Denis
Purcell, George V.; Behenna, Donald B.;
Walsh, Philip R., 1015
Purkiss, P.; Hughes, R. C.; Watts, R. W. E., 669
—; Hughes, R. C.; Watts, R. W. E., 714
Pusch, A. L. See Ruma, T. A.
Puutula, Liisa See Fyhrquist, Frej
Quesada, Louise C. See Rao, Parinam S.
Rabenstein, Dallas L.; Saetre, Rolf, 1140
Rand, R.; Grisley, D.; Sylvestre, E., 1063
Rand, R. N. See Fellows, W.
Rao, Jagan See Hochstrasser, Harry
—; Vlastelica, Daniel L.; Snyder, Lloyd R.;
Hahn, Ben; Shah, Ramesh, 1060
Rao, Parinam S.; Quesada, Louise C.; Evans,
Robert G.; Mueller, Hiltrud S., 1002
Rapoport, Abraham See Husdan, Harry
Rapoport, Henry See Gendler, Paul L.
Ras, M. R.; Masdeu, S.; Frison, J. C.;
Rubies-Prat, J., 840
Rautela, G. S. See Buege, J. A.
Rautela, G. See Buege, J. A.
Rautela, G. See Buege, J. A.
Rautela, Gopal S.; Liedtke, Raymond J., 108
Razi, Jamil Al See Lasky, Fred D.
Read, G. F. See Walker, Richard F.
Read, Graham F. See Joyce, Brian G.
—; Riad-Fahmy, Diana, 36
Rebar, Linda See Trivedi, Ramesh C.
Redman, L. W. See Lustig, V.
Reesse, Max G.; Johnson, LaVell R., 342
—; Pay, Gerald D.; Hadfield, K. L., 1039
Regnier, Fred E. See Schlabach, Timothy D.
Rehak, Nadja N.; Young, Donald S., 1414
Rehfeld, Selwyn J. See Loken, Hans F.
Reilly, E. B. See Wong, L. G.
Reimold, Ekkehard W.; Besch, Deborah J., 675
Rej, Robert See Bretaudiere, Jean-Pierre;
Copeland, William H.

—; McGrath, Christine, 989, 1971
Renoe, B.; Savory, Jöhn; Bruns, D., 1010
Renoe, B.; Savory, Jöhn; Bruns, D., 1010
Renoe, B.; Savory,

Rice, Eugene W., 2072

Richert, Jean-Francois See Ertingshausen,

Gerhard
Riches, Pamela See Keyser, James
Ricotta, Margaret See Kubasik, Norman P.
Riegelman, Sidney See Guentert, Theodor W.
Rippin, S. J.; Elston, D. J.; Fuller, B. C.; Geary,

T. D., 722
Robb, Herbert J. See Ferrell, William J.
Roberts, Eugene C. See Kohl, Herbert H.
Roberts, Norman B., 1836
Roberts, Robert E. See Porter, William H.
Robertson, E. A. See Borer, W. Z.
Robertson, E. Arthur See Van Steirteghem,

Andre C.

-; Sliva, Claire A.; Young, Donald S., 173

Robertson, Robert F. See Rodkey, F. Lee
Robertson, William R. See Forrester, Roger L.

Robin, Noel I. See McDonald, Lester J.; Siegel,

Robinow, M. See Gruemer, H.-D.; Pickard, N.

A.
Robinson, C. A., Jr. See Siegel, Abraham L.

—; Mitchell, Blanche; Vasiliades, John; Siegel,
Abraham L., 1847

—; Jobbs, Joel, 2208

Robinson, C. Andrew See Vasiliades, John
Robinson, C. Andrew, Jr. See Chou, Jingshyen
Robinson, J. D.; Braithwaite, R. A.; Dawling, S.,

2023, Mary K. See Neese, Jane W. Robinson, W. T. See Kraml, M. Rock, R. See Gerson, B. Rock, Robert C. See Chan, Daniel W. Rodgers, Richard See Eimstad, Wendy M.; Hu, Mae W.; Kam, Jean K.; Ronald, Robert C.; Rowley, Gerald L.; Ullman, Edwin F., 95 ", Schwarzberg, Moshe; Khanna, Edwin F., 1033 Rodgerson, Denis O. See O'Donnell, C. Michael Rodkey, F. Lee; Robertson, Robert F., 2184 Rodrigot, Maryvonne See Hosli, Peter Roe, Charles R., 982

Rodrigot, Maryvonne See Hosli, Peter Roe, Charles R., 382 Rogers, Michael L. See Mott, Glen E. Rollen, Z. Joyce; Yert, Adrienne W.; Needham, Larry L., 840 Ronald, Robert C. See Rodgers, Richard Root, Allen W. See Travis, Jeffrey C. Rosano, Thomas G.; Brown, Harold H., 1051 Rosecrans, Robert R.; L'Heureux, Maurice V., 1013 Rosen, Stina See Osterbery, Siw.

1013
Rosenberg, Burton J., Mihalik, M. Carol;
Gross, Mitchell S., 988
Rowell, F. J. See Paxton, J. W.
Rowland, Krystyna See Gilliland, Judith M.
Rowley, Gerald L. See Rodgers, Richard
Roy, A. V. See Moorehead, W. R.
Roy, Samir, Carmel, Ralph; Nelson, Jerald C.,
1054
Roy, Swapan K. See Mamaril, Francisco P.

Roy, Swapan K. See Mamaril, Francisco P. Rubenstein, Arthur Harold, 982 Rubenstein, Arthur Harold, 982 Rubies-Prat, J. See Ras, M. R. Ruff, Willie L.; Fakunle, Julius, 1016 Rule, A. H. See Hopkins, J. A. Clayton Ruma, T. A.; Howanitz, P. J.; Howanitz, J. H.; Pusch, A. L., 1026 Rumack, Barry H. See Blair, Doyce Rumbin, S. Michael See Winiarski, Ralph J. Rungruangsak, Krisna; Panijpan, Bhinyo, 1085

Rungruangsak, Krisna; Panijpan, Briny 1085 Russo, Salvatore F.; Persson, Anders V.; Wilson, Irwin B., 1539 Rutner, Herman See Dodd, Thomas F.

Rutner, Herman See Dodd, Thomas F.
Ryan, Douglas E.; Holzbecher, Jiri; Stuart, D.
Craig, 1996
Ryan, W. T. See Li, Philip K.
Ryder, K. W.; Oel, T. O.; Glick, M. P.; Jimerson,
J. C.; Kellogg, T. L., 1057
Ryhage, Ragnar See Marde, Yvonne
Saadu, Joseph J., 2209
Saarni, H. See Viikari, J.
Saat, Yeheskel A. See Jenny, Richard W.
—; Newman, Howard A. I.; Allison, Debra K.;
Hart, Ronald W., 1013
Sabbatini, Massimo See D'Ascenzo, Giuseppe
Sacco, Marian; Groman, Ernest, 1041 Sabbatini, Massimo See D'Ascenzo, Giusepp Sacco, Marian: Groman, Ernest, 1041 Sadee, Wolfgang See Powers, James L. Saetre, Rolf See Rabenstein, Dallas L. Saini, Mohan S. See Van Etten, Robert L. Sajanti, Esko See Vihko, Pirkko Sakakibara, Shumpei See Kato, Takeshi Sampen, Richard H. B. See Glick, Melvin R. Sampen, Eric J. See Buttis, Carl A. Hanno

Sampson, Eric J. See Burtis, Carl A.; Hannon, W. Harry; Hearn, Tom —; Baird, Marie A.; Smith, Emmalen M.; Burtis, Carl A.; Bayse, David D.; Witte, David L.,

997 -; Miller, Sheryl A.; McKneally, Sarah S.; Whitner, Virginia S.; Hannon, W. Harry; Burtis, Carl A., 1805 Sams, Paul Steven; Smith, Carl H.; Dietzler, David N., 1020

Sanderso, James L. See Cobb, Sharon A. Sanderson, James, 1015
Sanderson, R. L.; Scherer, G. W., 1008
Sandstead, H. H. See Jacob, R. A.
Sandstrom, R. L.; Scherer, G. W., 1008
Sandstead, H. H. See Jacob, R. A.
Sandstrom, Arne See Kagedal, Bertil
Sanford, Karl J. See Curme, Henry G.
—; Meyer, Donna J., 1000
Sanghvi, Ajit See Sanghvi, Naren
Sanghvi, Naren; Sanghvi, Naren
Sarkozi, L. See Beers, P. C.
Sasa, Suleiman; Blank, C. LeRoy; Wenke,
David C.; Sezupak, Christine A., 1509
Sasse, Edward A. See Howell, Barbara F.
Satenstein, Lila See Phillips, Richard N.
Sauberlich, H. E. See McGown, Evelyn L.
Saunders, George C. See Standefer, J. C.
Savidge, Ronald See Malya, P. A. Govinda
Savory, D. J.; Pryce, J. D., 1618
Savory, J. See Lacher, David A.
Savory, John See Brody, Judy; Hammond,
John E.; Renoe, B.; Valdes, Roland
Savory, M. G.; Cross, R. E., 1060
Sax, Sylvan M. See Giegel, Joseph L.; Moore,
John J. Marker, T. Harrington, Wannel Sanders, James L. See Cobb, Sharon A.

Scanzillo, Nathan T.; Harrington, Wayne H.,

1051
Schade, David S.; Burke, George; Eaton, R.
Philip; DeMoss, John, 1614
Schade, R. W. B. See Demacker, P. N. M.
Schaffer, Michael See Fenton, John
Schaffer, Robert See Howell, Barbara F.;
Valapoldi, Rance A.
Schall, Roy F., Jr.; Fraser, Alan S.; Hansen,
Herbert W.; Kern, Carl W.; Tenoso, Hal J.,
1033

Schall, Roy F., 7f.; Fraser, Alan S.; Hansen, Herbert W.; Kern, Carl W.; Tenoso, Hal J., 1033

-; Fraser, Alan S.; Hansen, Herbert W.; Kern, Carl W.; Tenoso, Hal J., 1801
Schechter, Alan N. See Van Steirteghem, Andre C.; Zweig, Mark H.
Schechter, Paul J. See Bohlen, Peter Schedewie, H. See Heber, D.
Scheibe, Peter See Bergmeyer, Hans Ulrich Scherer, G. W. See Sanderson, R. L.
Schick, K. G.; Magearu, V. G.; Huber, C. O., 448
Schiffman, Ronald B. See Finley, Paul R.
Schiller, Harvey S.; Kulchinski, Linda; Luthy, David A., 275
Schlabach, Timothy D.; Alpert, Andrew J.; Regnier, Fred E., 1351
Schleinegr, Jean-Louis See Stahl, Andre Schlumberger, Helmut See Klose, Sigmar Schmidt, G. J. See Vandemark, F. L.
Schmidt, Robert M. See Brosious, Effie M. Schneider, Arthur See Szatkowski, Paul Schneider, R. S. See Chegwidden, Kaye; Fanciullo, R. A.; Izutsu, A.
Schoemaker, H. J. See Brock, P.

-; Brock, P.; Travis, K.; Odstrchel, G., 992
Schold, C. See Fleisher, M.
Schorder, Karsten See Horpacsy, Geza Schubert, Edward T., 1011
Schuerch, Conrad See Flood, James G.
Schusert, Richard M.; Dappen, Glen M.; Wu, Tai Wing; Fellows, William D.; Linn, Shirley Y., 1008
Schussler, G. C. See Hopkins, J. A. Clayton Schwartz, M. K. See Fleisher, M.; Nisselbaum,

Schussler, G. C. See Hopkins, J. A. Clayton Schwartz, M. K. See Fleisher, M.; Nisselbaum,

-; Fleisher, M.; Loftin, L., 1060 Schwartz, Morton K. See Menendez-Botet, Celia J.

Schwartz, Morton K. See Menendez-Botet, Celia J. Schwartz, S. See Pascual, C. Schwartz, S. See Pascual, C. Schwartzerg, Moshe See Eimstad, Wendy M.; Rodgers, Richard Schwertner, H. A.; Farquhar, J. K., 990 Schwertner, Harvey A.; Hamilton, Horace E.; Wallace, Jack E., 895 Scoggin, Diane: Petrehn, Jeffrey; Besemer, Donald, 1055 Scoggins, Bruce A. See Maguire, Kay P. Scott, D. See Lee, Norman E. —; Melville, Robert S.; Young, Donald S., 1299 Scott, D. See Brody, Judy Scott, Jacqueline See Lott, John A. Sczupak, Christine A. See Sasa, Suleiman Seakins, J. W. T. See Ersser, R. S. Seaman, V. F. See Blume, Philip Seamonds, B., 1061 Sedor, F. A. See Jacobson, D. L. —; Jacobson, D. L.; Holleman, C.; Cross, R. E., 1057

1057
Segre, G. See Krutzik, S.
Seguin, F. W. See Potter, J. L.
Segura, R. M. See Pascual, C.
Seiberth, Volker See Hengen, Nikolaus
Selliken, Joseph H., Jr. See Cembrowski,
George S.
Senju, Osamu See Yuu, Hojyo
Senkbeil, Joyce See Dix, Douglas
Serra, M. T. See Brookes, L. G.
Sevier, E. Dale: Cano, Carlos, 1059
Sexton, Karen See Dix, Douglas
Sezille, Georges See Fruchart, Jean Charles

Shafer, R. B. See Elson, Michael K. Shah, Ramesh See Rao, Jagan Shamberger, R. J.; Leto, D. A.; Longfield, A. K.; Willis, C. E., 1012

K.; Willis, C. E., 1012 Shamberger, Raymond J. See Kelson, James R.; Pleban, Patricia Shapcott, D.; Cloutier, D.; Vobecky, J. S.; Demers, P. P.; Vobecky, J., 1029 Shapcott, Dennis, 391 Shapiro, Barry A. See Steiner, Michael C. Shapiro, David See Ballantyne, Fiona C. Sharpe, A. R., Jr. See Lim, F. Shastri, Shirish: Bright, Michael; Wagman,

Smastri, Shirish: Bright, Michael; Wagman, Edward, 1290
Shaw, Leslie M.: London, Jack W.; Petersen, Lorette E., 905
-; Petersen, Lorette E., 1013
-; Newman, David A., 1818
Shaw, William See Hannon, W. Harry Shea, Margaret C. See Cornbleet, P. Joanne Sheard, E. A. See Carter, R. J.
Shearer, Mark R.; Thomas, Franklin M.:
Bonig, Jennifer A.; Keller, Roger, 1857
Sheehan, M.; Moore, M.; Blume, P., 1046
Shen, S. W. See Yu, Stephen S.
Sher, Geoffrey See Freer, Dennis E.
Sherwin, John E. See Natelson, Samuel;
Obernolte, Ronald
Sherwin, Susan See Fan, Der-Fong
Shevchik, D. See Bondar, R.
Shih, Fong Mei Lee See Mendenhall, Douglas
W.
Shih, Jason C. H.; Teulings, E. P., 2176

Shih, Jason C. H.; Teulings, E. P., 2176
Shihabi, Z. K., 1630
Shinitzky, M. See Blumenfeld, T. A.
Shlagenhaft, Anne See Kuba, Kanta
Shuler, Stanton E. See Witherspoon, L. R.;
Witherspoon, Lynn R.
Shull, Bruce C.; Haughey, David; Koup, Jeffrey R.; Baliah, Tadla; Li, Philip K., 1167
Siddiqi, Iqbal W.; Erskine, G. E., 1005
Siegel, Abraham L. See Chou, Jingshyen;
Robinson, C. A., Jr.; Ermocilla, R., 1043
Siegel, Lewis See Long, Rita; McDonald, Lester J. Shih, Jason C. H.; Teulings, E. P., 2176

d. ; McDonald, Lester J.; Robin, Noel I., 1891 Sievers, Diana L. See Hewitt, Thomas E. Siggaard-Andersen, Ole See Fogh-Andersen, Niels

Siegaard-Andersen, Ole See Fogh-Andersen, Niels
Silverman, Lawrence M.; Dermer, Gerald B.; Martin, Gary; Tokes, Zoltan A., 1003
—; Pincus, Frances E.; Perera, Swarna, 1047
—; Caruso, L. M.; Irwin, L. E.; Kitzman, M.; Pincus, Frances E., 1423
Simpson, D. See Percy-Robb, I. W.
Simpson, Elliott; Thompson, Douglas, 389
Sinclair, A. J.; Slattery, W., 2073
Sine, Harrison E. See Kubasik, Norman P.
Singh, R. D.; Galante, L. F.; Hoffman, D. B.;
Elahi, Nasik, 1030
Singh, P. See Chegwidden, Kaye; Fanciullo, R.
A.; Izutsu, A.; Kabakoff, D. S.
Sinn, J. See Davison, J. P.
Skrede, Sverre; Solberg, Helge Erik; Blomhoff,
Jan Petter; Gjone, Egil, 1095
Slattery, W. See Sinclair, A. J.
Slaunwhite, D. See Kagali, V. A.
—; Clements, J.; Tuggey, R.; Reynoso; G., 995
Sliva, Claire A. See Robertson, E. Arthur
Smeaton, Timothy C. See Gilliland, Judith M.
Smith, Arnold L.; Smith, David H., 1452
Smith, G. H. See Tieber, V. L.
Smith, Carl H. See Sams, Paul Steven
Smith, David H. See Sams, Paul Steven
Smith, David H. See Sampson, Eric J.
Smith, Lauls H. S. See Hehnus, Gary L.
Smith, L. B. See Delen, C.; Leon, L. P.
Smith, Louis See Albers, John J.
Smith, Louis See Albers, John J.
Smith, L. Randolph H.; Brewster, Marge A.;

Smith, Randolph H.; Brewster, Marge A.; MacDonald, James A.; Thompson, Dola S.,

Smith, Sharon L.; Novotny, Milos; Weber, Emil L., 545 Smith, Stuart W., 1016

Smith, Stuart W., 1016
Smock, P. L.; Humphries, B. A.; Stephens, J.;
Spencer, W. W., 997
Smuckler, Edward A., 975
Smythe, P. See Foster, K. J.
Smythe, Patricia See Lloyd, Barbara
Snyder, K. See Berne, Bernard H.
Snyder, L. R. See Furda, J.; Leon, L. P.
Snyder, L. R. See Furda, J.; Leon, L. P.
Snyder, L. R. See Furda, J.; Leon, L. P.
Snyder, Lloyd R. See Rao, Jagan
Sodickson, Lester A. See Carter, Edward A.
Soffer, Stuart; Entine, Steve; Wolfe, Thomas;
Eggert, Arthur; Friedman, Richard, 436
Solberg, Helge Erik See Skrede, Sverre
Soldin, Steven J.; Hill, J. Gilbert, 747
—; Hill, J. Gilbert, 1051

Talb

Tam Tan Tan Tan

Tar

Tay Tela Ten Teu

Tha The Thi Thi The The

The

The

The The Th Til

Tit

To To To

TTT

Solgaard, Poul See Paulev, Poul-Erik
Somol, Helen See Fleischman, Alan I.
Sontrop, Mary E. See Bereton, Diane M.;
Peake, Michael J.
Sostman, Henry E.; Manley, K. Alan, 1331
Sparks, J. See Stewart, C.
Spayd, Richard W., et al., 1343
Spencer, W. W. See Smock, P. L.
Spencer, W. W. See Smock, P. L.
Spencer, W. William; Sylvester, Diane; Nelson,
Gilbert H., 386
Sperling, M. See Chen, I. W.
Spitzer, Ralph W. See Yang, N. Y. Jack
Spooner, R. J. See Beck, Peter R.
Sprague, Kent See Black, Marsha
Spratt, James L. See Steiner, Martin
Squires, Edwina See Christenson, James G.
Streenivasan, V. V. See Potter, J.
Srinivasan, Sathanur R.; Ellefson, Ralph D.;
Whitaker, Carl F.; Berenson, Gerald S., 157
Staehler, F. See Kleinhammer, G.
Stahl, Andre: Frick, Alice; Inler, Marc;
Schlienger, Jean-Louis, 1730
Staley, Michael J.; Farrance, Ian, 2103
Standefer, J. C. See Anoakar, Sunil G.; Garry,
P. J.
Saunders, George C., 1903

Staley, Michael J.; Farrance, Ian, 2103
Standefer, J. C. See Anoakar, Sunil G.; Garry, P. J.

; Saunders, George C., 1903
stanfill, Robert E. See Gotelli, George R. Statland, Bernard E. See Freer, Dennis E.

; Freer, Dennis E., 1010
Steele, Bernard W. See Koehler, Donald F. Stein, Bernard See Bisera, Jose
Stein, E. A. See Kaplan, L. A.; Miller, J. A.
Stein, E. A. See Kaplan, L. A.; Miller, J. A.
Stein, Evan A.; Steiner, Paula M.; Gartside, Peter S.; Glueck, Charles J., 1112
Steinberg, Daniel, 977
Steinberger, E. See Grotjan, H. E., Jr.
Steiner, Martin; Spratt, James L., 339
Steiner, Michael C.; Shapiro, Barry A.;
Kavanaugh, John: Walton, John R.;
Johnson, Wayne, 793
Steiner, Paula See Aibers, John J.
Steiner, Paula See Aibers, John J.
Steiner, Paula See Baldw A. J. R.
Sternson, Larry A. See Bannister, Steve J.;
Mendenhall, Douglas W.
Stevenson, David See Hochstrasser, Harry
Stewart, C.; Sparks, J.; Bodlaender, P.; Cuan,
J., 1038
Stewart, Charles See Procsal, Dana

3, 1038
Stewart, Charles Se^ Procsal, Dana
Steyaert, Herman See Versieck, Jacques
Stites, Daniel P., 984
Stoeltzing, Woods See Albert, Jerry
Stolle, Catherine A. See Haagensen, Darrow E.,

Stoltz, Michael See Klose, Sigmar Stone, Henry; Gillilan, Bobbie, 520 Stong, Linda J. See Nix, Paul T.; Trivedi,

Ramesh C.

—; Kan, B.; Morgenstern, Stanley; Trivedi, Ramesh C., 1019
Stougas, Demetrios See Broughton, Alan Strenk, Gerald A.; Ladden, Paul J., 1000
Stromme, J. H. See Theodorsen, Liv Strong, James E. See Broughton, Alan Strong, Linda J. See Trivedi, Ramesh C. Stroud, P. E. See Turner, W. E. Strunc, G. See Peter, F.
Stryd, R. P.; Gilbertson, T. J., 927
Stuart, D. Craig See Ryan, Douglas E. Studholme, R. See Anderson, R. J.
Stuyt, P. M. J. See Demacker, P. N. M.
Sun, L.; Flores, O.; Miyada, D.; Vaziri, N. D., 1017

Sun, E.; Flores, O.; Miyada, D.; Vaziri, N. D., 1017 Sun, Tsich; Lien, York Y., 1027 Sundaram, P. V.; Igloi, M. P.; Wassermann, R.; Hinsch, W.; Knoke, K.-J., 234 ; Igloi, M. P.; Wassermann, R.; Hinsch, W., 1813

— ; igtor, M. F.; Wassermann, R.; Hinsch, W., 1813

Sunderman, F. William, Jr, See Adams, Douglas B.

—; Trudeau, Edward H.; Horak, Eva, 1052

Sunshine, Irving See Dinovo, Eugene C.

Suria, D.; Tu, C.; Pollard, A., 1055

Svensson, Karin See Mattiasson, Bo

Sweat, R. See Bodlaender, P.

Sweeley, Charles C. See Gates, Stephen C.

Sylvester, Diane See Spencer, W. William

Sylvestre, E. See Rand, R.

Symonds, E. M. See Craven, David J.

Szasz, Gabor See Gruber, Wolfgang;

Waldenstrom, Johan

—; Gruber, Wolfgang, 2.45 of gang G.; Busch, Ernst-Werner, 997

—; Gerhardt, Willie; Gruber, Wolfgang, 1557

Szatkowski, Paul; Louderback, Allan; Schneider, Arthur, 1064

Szatowski, Faui, Louderback, Alian, Schneider, Arthur, 1064 Szendera, V. See Flores, O. R. Szpunar, Walter E.; Block, Marshall, 1616 Taft, Edwin See Lam, William K. W. Takagi, Yasushi See Yuu, Hojyo

Talbot, J. See Belles-Isles, M.
Tamaura, Yutaka See Inada, Yuji
Tan, I. K. See Chua, K. S.; Lam, C. W. K.
Tan, S. Y.; Noth, R.; Mulrow, P. J., 1531
Tanaka, Naomi See Mashige, Fumiko
Tarli, Paolo See Meiattini, Franco
Tarnoky, Andras L. See Frohlich, Jiri
Taylor, M. See Cate, J. C., IV; McGlothlin, C.
David Tarli, Paolo See Meiastini, Franco
Tarloky, Andras L. See Frohlich, Jir
Taylor, M. See Cate, J. C., IV; McGlothlin, C.
David
Taylor, R. H. See Percy-Robb, I. W.
Telander, David H., Jr. See Kohl, Herbert H.
Tenoso, Hal J. See Schall, Roy F., Jr.
Teulings, E. P. See Shih, Jason C. H.
Thatcher, G. William See Jennison, Thomas A.
Theodorsen, Liv; Stromme, J. H., 2215
Therrell, Bradford L., Jr.; Drosche, Joy M.;
Dziuk, Timothy W., 1182
Thies, A. Cole See Finley, Paul R.
Thies, A. Cole See Finley, Paul R.
Thies, A Debert L.; Fischer, Lawrence J., 778
Thoma, Jerry See Godolphin, William
Thomas, Franklin M. See Shearer, Mark R.
Thompson, A. E. See Corbett, C. R. R.
Thompson, Douglas See Simpson, Elliott
Thompson, Douglas See Simpson, Elliott
Thompson, J. C. See Williamson, J. A.
Thompson, J. See Williamson, J. A.
Thompson, James E. See Davis, Robert B.
Thompson, Marie See Moorehead, W. R.
Thompson, Marie See Moorehead, W. R.
Thompson, Rohald A. See Keyser, James
Thor, Elizabet See Nielsen, Leonard G.
Tibbling, Gunnar See Kagedal, Bertil
Tieber, V. L.; Weidner, N.; Smith, C. H.;
Kessler, G.; McDonald, J. M.; Ladenson, J.
H.; Dietzler, D. N., 1056
Siffany, Thomas O. See Lee, Norman E.
Titheradge, A. See Brody, Judy
Tjell, Jens Christian See Pauley, Poul-Erik
Todai, N. K. See Pawar, G. B.
Toffaletti, J. See McComb, Robert B.
— Bowers, George N. Jr., 989
Tokes, Zoltan A. See Silverman, Lawrence M.
Toleikis, A. See Bornag, G. J. M.
Toney, V.; Leon, L. P., 1001
Tonks, D. B. See Aleyassine, H.
Toren, E. Clifford, Jr. See Cembrowski, George
S.; Durbridge, Timothy C.
Toriussen, William See Andersen, Ivar
Touchstone, Joseph C.; Dobbins, Murrell F.,
IV; Hirsch, Charlene Z.; Baldino, Anna R.;
Kritchevsky, David, 1496
Tracz, Gordon T. See E. Li, Philip K.
Trafton, John E. See Crowther, Fredric H.
Trainer, Thomas D. See Knight, David R.
Travis, Jeffrey C.; Dewhurst, Peter B.; Root,
Allen W., 522
Travis, K. See Schoemaker, H. J.
Tremblay, Roland R. See Chapdelaine, Pierre
Trendelenburg, Chr.; Kruse-Jarres, J. D., 996
Tria, Michael; K Trijbels, Frans J. M. See Williams, Hans L. Trivedi, Ramesh C. See Nix, Paul T.; Stong, Linda J. -; Rebar, Linda; Desai, Kiran; Stong, Linda J., -; Rebar, Linda; Berta, Eileen; Strong, Linda J., ; Rebar, Linda; Berta, Eireen; Strong, Linda-1908
Trocha, Paul; D'Amato, N. A., 193
Troiano, Raymond A. See Bogden, John D.
Trudeau, Edward H. See Sunderman, F.
William, Jr.
Truong, Khai See McBride, James H.
Tseng, Hsiu-Yu See Natelson, Samuel
Tsung, Swei H., 2068
Tu, C. See Suria, D.
Turgkey, R. See Slaunwhite, D.
Turk, Richard S.; Zipp, Adam, 1018
Turnell, D. C. See Foster, K. J.
Turner, Kathie See Lott, John A.
Turner, O. See Kwak, Y. S.
Turner, W. E.; Carter, R. J.; Bailey, G. G.;
Smith, B. W.; Stroud, P. E.; Bayse, D. D.,
1028

1028
Twomey, S. L. See Bodlaender, P.
Twomey, Stanley See Fortier, Raymond
Twomey, Stanley L. See Macfarlane, Richard
E.; Pinio, Samuel
Uddin, D. E. See Hickey, T. M.

—; Gustafson, A. B.; Hickey, T. M.; Becker, R.
A.; Dasler, A. R., 1030
Ullman, Edwin F. See Eimstad, Wendy M.;
Rødgers, Richard

Rodgers, Richard 973

..., 9.73. Ullimann, Agnes See Hosli, Peter Unger, Wilfried See Bayer, Peter M. Unoki, T. See Wada, M. Uppal, S. S.; Osaki, S., 994 Uretsky, L. S. See Furda, J. Urquhart, Nadine, 1652 Valapoldi, Rance A.; Paule, Robert C.; Schaffer, Robert; Mandel, John; Moody, John R., 1030 Valdes, R. See Brody, Judy; Lacher, David A. Valdes, Roland; Savory, John; Cross, R. E., Valet, Jean-Paul See Grenier, Andre van Alphen, A. C. C. M. See de Jong, E. B. M. van Damme, Willy See Bohlen, Peter Vandemark, F. L.; Adams, Reginald F.; Schmidt, G. J., 87 van den Kamp, J. S.; van Stekelenburg, G. J., 1083 Vanderlinde, Raymond E. See Buhl, Steven N.; Kayne, Frederick J.; Powers, Donald M. van der Meulen, Jan See Muskiet, Frits A. J. van der Slik, W. See Persijn, J. P. Van Etten, Robert L.; Saini, Mohan S., 1525 Van Lente, Frederick See Pascual, C. : Fink, Daniel J., 387 van Netten, Johannes P. See Algard, F. Van Steirteghem, Andre C. See Zweig, Mark H.
-; Robertson, E. Arthur; Young, Donald S., 54
-; Robertson, E. Arthur; Young, Donald S., 212
-; Zweig, Mark H.; Schechter, Alan N., 414
-; Robertson, E. Arthur; Young, Donald S., 995
-; Lewis, S. A.; Buffone, G. J.; Goyens, P.;
Robertson, E. Arthur, 1027
van Stekelenburg, G. J. See van den Kamp, J. S.
Van't Laar, A. See Demacker, P. N. M.
Vantrappen, G. R. See Peeters, T. L.
Varady, R.; Leon, L. P.; Hahn, B., 1004
Vasiliades, John See Robinson, C. A., Jr.
—; Pollock, James; Robinson, C. Andrew, 383, Vassef, Ahmad A., 101 Vassef, Ahmad A., 101
Vaudreuil, Christine See Yang, Henry C.
Vaughn, G. C. See Amos, W. H., Jr.
Vaziri, N. D. See Sun, L.
Vecsei, P. See Connolly, T. M.
Veening, Hans See Knudson, Eric J.
Veerkamp, Jacques H. See Williams, Hans L.
Verrill, H. L. See Gruemer, H.-D.; Pickard, N. Verrill, H. L. See Gruemer, H.-D.; Pickard, N. A. A.

—; Pickard, N. A.; Gruemer, H.-D., 1027.

Versieck, Jacques: Hoste, Julien: Barbier, Fabrice; Steyaert, Herman; De Rudder, Julien; Michels, Hilde, 303

Vesterberg, Olof: Wrangskogh, Kent, 681

Vihko, Pirkko; Kontturi, Matti; Korhonen, L. Kalevi, 466, 1783

—; Sajanti, Esko; Janne, Olli; Peltonen, Leena; Vihko, Reijo, 1915

Vihko, Reijo See Vihko, Pirkko

Viikari, J.; Saarni, H., 174

Vince, Michael E. J. See Yang, N. Y. Jack

Vincanzi, Frank F. See Mangubat, Elmer A.

Viola, J. L. See Williams, R. C.

Virella, G.; Goudswaard, J.; Boackle, R. J., 1421

Virella, Gabriel; Hipp, Win Anne; Hood, W.,

514 Virella, Gabriel; Hipp, Win Anne; Hood, W.,
514
Virkola, Pertti See Adlercreutz, Herman;
Wells, Henry J.
Vladutiu, Adrian O.; Cunningham, Eugene E.;
Walshe, Joseph, 1084
Vlastelica, D. L. See Furda, J.
Vlastelica, Daniel L. See Rao, Jagan
Vobecky, J. See Shapcott, D.
Vobecky, J. S. See Shapcott, D.
Vogt, Esther See Hosli, Peter
Voligt, Walter See Castro, Albert
Volini, Frederick I. See Jibril, Abbas O.
Volle, C. See Chen, I. W.
Voller, K.-O. See Hengy, M.
Vos-Janssen, H. E. See Demacker, P. N. M.
Vos-Janssen, H. E. See Bostick, W. D.
Waalkes, T. P. See Bostick, W. D.
Waalkes, T. P. See Bostick, W. D.
Waalkes, T. Phillip See Kuo, Kenneth C.
Wada, M.; Okabe, M.; Naito, H. K.; Nakaoka,
K.; Kusukawa, R.; Lewis, L. A., 1024
—; Naito, H. K.; Unoki, T.; Akamatsu, A.;
Minamisono, T.; Handa, Y.; Kusukawa, R.;
Lewis, L. A., 1024
Wade, Maclyn E. See McCready, Jill
Wagman, Edward See Shastri, Shirish
Wahlefeld, August Wilhelm See Bergmeyer,
Hans Ulrich
Walberg, Clifford B.; Pantlik, Violet A.; Walberg, Clifford B.; Pantlik, Violet A.; Lundberg, George D., 507 Waldenstrom, Johan See Gruber, Wolfgang —; Gerhardt, Willie; Szasz, Gabor; Gruber, Wolfgang, 1004 Walker, Richard F.; Riad-Fahmy, D.; Read, Ç.

Wall, Jeffrey H. See Gotelli, George R. Wallace, Eric G. See Monthony, James F. Wallace, Jack E. See Schwertner, Harvey A. Walle, T.; Walle, U. K.; Bridges, D. R.; Conradi, E. C.; Gaffney, T. E., 991
Walle, U. K. See Walle, T.
Walsh, Philip R. See Phillips, Richard N.;
Purcell, George V.; Wang, Ming-Chung
—; Abarca, Surigenia D.; Wang, Ming-Chung, Walshe, Joseph See Vladutiu, Adrian O.
Walter, Bert, 1034
Walton, John R. See Steiner, Michael C.
Walton, R. See Foster, K. J.
Walz, Daniel A. See Ho, Thomson T. S.
Wang, Ming-Chung See Phillips, Richard N.;
Walsh, Philip R.

—; Abarca, Surigenia D.; Hickey, Patricia J.;
Walsh, Philip R., 1039
Wannemacher, Robert W., Jr. See Pace,
Judith A. Judith A. Ward, Anthony Milford See Keyser, James Warnick, G. Russell See Aibers, John J. warnick, G. Russell See Albers, John J.

-; Albers, John J., 1025

Warren, Karen See Kubasik, Norman P.

Warwick, Warren J.; Hansen, Leland G., 381

-; Hansen, Leland G., 2050 Washington, George A. See Mickle, Donald A. Washington, George A. See Mickle, Donald A. G.
Wassermann, R. See Sundaram, P. V.
Wataji, Lester J. See Forrester, Roger L.
Watkins, Bruce F. See Frank, Joseph J.
Watson, Craig See Zipp, Adam
Watson, F. See Yu, Leisure
Watson, Portia B. See Fleischman, Alan I.
Watts, R. W. E. See Purkiss, P.
Weaver, Terry L. See Mazza, John C.
Weber, Emil L. See Smith, Sharon L.
Weetall, Howard H., 974
Weidman, Stuart See Kuba, Kanta
Weidman, Stuart See Kuba, Kanta
Weidmer, N. See Tieber, V. L.
Weil, Max Harry See Bisera, Jose
Weingartner, Donys See Gotelli, George R.
Weinkam, Robert J.; Wen, Judy H. C.; Furst,
Daniel E.; Levin, Victor A., 45
Weiss, Stephen See Miller, Phillip
—; Miller, Phillip; Cornell, Martha, 996
Weitz, Ann K. See Perlstein, Marie T.
Wells, Henry J.; Adlercreutz, Herman;
Liewendahl, Kristian; Virkola, Pertti, 2209
Wells, Samuel A., Jr. See Haagensen, Darrow
E., Jr. Wells, Samuel A., Jr. See Haagensen, Darro E., Jr. Welsh, Muriel See Giegel, Joseph L. Wen, Judy H. C. See Weinkam, Robert J. Wenk, R. E. See Lustgarten, J. A. Wenke, David C. See Sasa, Suleiman Werner, Mario: Brooks, Samuel H.; Knott, Lancaster B., 1895 Wesselman, A. See Kaplan, L. A. West, Peter M. See Ismail, Adel A. A. West, Peter M. See Ismail, Adel A. A. West, Peter M. See Ismail, Adel A. A.
Westgard, James O. See Narayanan, Sheshadri
—; Groth, Torgny, 1049
Whicher, J. T., 7
Whicher, John T.; Hunt, James; Perry, David
E.; Hobbs, John R.; Fifield, Richard, 531
Whitaker, Carl F. See Srinivassan, Sathanur R.
Whitby, L. G. See Percy-Robb, I. W.
White, Peter See Keyser, James
Whiting, R. See Pape, B. E.
Whitlow, Karen; Gochman, Nathan, 2018
Whitner, Virginia S. See Burtis, Carl A.;
Sampson, Eric J.
Widdowson, Graham M. See Williams, George Widdowson, Graham M. See Williams, George Z.
Wiebe, Donald See Aibers, John J.
Wieme, R. J.; De Broe, M. E.; De Cock, P.;
Jacken, J., 520
Wien, George See Broughton, Alan
Wiener, K.; Foot, C. H., 2212
Wiener, Meir Henry See Herzberg, Mala
Wilcox, Alan A. See Carroll, Wallace E.
Wilensky, A. J., 722
Wiles, David H. See Franklin, Michael
Williams, George Z.; Widdowson, Graham M.;
Penton, James, 313
Williams, Gerald A. See Hargis, Gary K.
Williams, Gordon H. See Emanuel, Rodica L.
Williams, Gordon H. See Emanuel, Rodica L.
Williams, Jackie See Ahmed, Sue
Williams, Jackie See Ahmed, Sue
Williams, Jackie See Ahmed, Sue
Williams, R. C.; Viola, J. L.; Igou, D. K., 1008
Williams, R. Jane See Finley, Paul R.
Williams, Jackie See Ahmen, See Finley, Paul R.
Williams, R. Jane See Finley, Paul R.
Williamson, John See Ballantyne, Fiona C.
Willis, C. E. See Shamberger, R. J.
Willis, Charles E. See Kunar, Satyendra;
Pesh-Imam, Muni;
Willson, Susan E. See Case, Richard V.
Wilson, Douglas W. See Joyce, Brian G.
Wilson, Irwin B. See Russo, Salvatore F. Wiebe, Donald See Aibers, John J.

Wilson, J. B., Jr. See Abraham, E. C. Wilson, Theresa See Jaffe, Russell Winiarski, Ralph J.; Ladden, Paul J.; Rumbin,

Winiarski, Ralph J.; Ladden, Paul J.; Rumbin, S. Michael, 1019
Winn, C. L. See Hainline, A., Jr.
Winn, Carole See Lippel, Kenneth
Wisgerhof, Max See Brown, Ronald D.
Witherspoon, L. R.; Shuler, Stanton E.; Garcia,
Meredith M.; Zollinger, Lynn A., 1043
—; Shuler, Stanton E.; Garcia, Meredith M.;
Zollinger, Lynn A., 1043
—; Shuler, Stanton E.; Garcia, Meredith M.;
Zollinger, Lynn A., 1046
Witherspoon, Lynn R.; Shuler, Stanton E.;
Garcia, Meredith M., 494
Witte, David L. See Brown, Linda F.; Feld,
Ronald D.; Kiser, Ernest J.; Sampson, Eric J.

Brown, Linda F.; Feld, Ronald D., 1778
Woehst, Jim See Lewis, Sue
Woiszwillo, J. E. See Brock, P.
Wolf, Paul L.; Griffith, John, 1047
Wolfe, Thomas See Soffer, Stuart
Wolfsen, A. R. See Heber, D.
Wolthers, Bert G. See Maskiet, Frits A. J.
Wong, L. G.; Reilly, F. B.; Kim, M.; Chan, M.;
Chui, J., 1011
Wongvibulsin, Aroon See Lolekha, Porntip H.
Woo, Jannie; Floyd, Michael; Cannon, Donald
C.; Kahan, Barry, 999
—; Floyd, Michael; Cannon, Donald C.; Kahan,
Barry, 1464

Barry, 1464 Wood, C. B. See Beck, Peter R.

Wood, Peter See Kuba, Kanta Wood, Peter See Kuba, Kanta Worsley, Ian G. See Fang, Victor S. Worth, Howard G. J., Wright, Dennis J., 722 Wrangskogh, Kent See Vesterberg, Olof Wright, Dennis J. See Worth, Howard G. J. Wright, Jane M. See Brosious, Effie M. Wroe, Janet See Evans, R. T. Wu, J. T. See Ash, K. Owen Wu, James T.; Wu, Lily H., 999 Wu, Lily H. See Wu, James T.; Wu, Lily H. See Wu, James T.; Wu, Tai Wing See Schusert, Richard M. Wunsch, C. D. See Mittleman, R. Wyatt, Richard J., 985

Wu, fal Wing see Schusert, Richard M.
Wunsch, C. D. See Mittleman, R.
Wyatt, Richard J., 985
Yalow, Rosalyn S., 965
Yam, Lung T. See Lam, William K. W.
Yamaguchi, Yoshihisa; Hayashi, Chozo, 149
Yamaguchi, Yoshihisa; 2178
Yamanaka, Manabu See Mashige, Fumiko
Yang, Henry C.; Hardin, Judy; Vaudreuil,
Christine, 1628
Yang, N. Y. Jack; Ewen, Lilian M.; Vince,
Michael E. J.; Spitzer, Ralph W., 2217
Yanick, Paula See Chan, Daniel W.
Yarnell, Stanley K. See Burri, Betty J.
Yasminch, Walid G. See Hanson, Naomi Quast
—; Ibrahim, Guirguis A.; Abbasnezhad, Majid;
Awad, Essam A., 1985
Yert, Adrienne W. See Rollen, Z. Joyce
Young, C. W. See Alcock, N. W.
Young, Donald S. See Rehak, Nadja N.;
Robertson, E. Arthur; Scott, Charles D.;
Van Steirteghem, Andre C.

Youssefi, M.; Faust, S. D.; Zenchelsky, S. T.,

Yousseli, M.; Faust, S. D.; Zenchelsky, S. T., 1109
Yu, Leisure; Watson, F.; Chilcote, M. E.; McMenamy, R. H.; Border, J. R.; Cerra, F.; Kissinger, P., 1041
Yu, Stephen S.; Shen, S. W., 993
Yu, Hojvo; Takagi, Yasushi; Senju, Osamu; Hosoya, Junichiro; Gomi, Kunihide; Ishii, Trans, 9054

A. 8

CR.

CC

E, 6 H, 1 AAC

Seap A Ai

B

hi hi

M na na na na ne pi re Se 30 AB

Abu Se Acc Ace ei re Г Ace g Ace Ace Aci Aci

> Aci a b

Zachariasen, Hans See Adams, Douglas B.; Andersen, Ivar Zakim, David, 975 Zamecnik, Jiri; Armstrong, D. T.; Green, K.,

Zamecnik, Jiri; Armstrong, D. T.; Green, K., 627
Leig, Steven See Lum, Gifford
Zeil, Wilbert See Procsal, Dana
Zenchelsky, S. T. See Youssefi, M.
Zimmerman, R. S. See Hopkins, J. A. Clayton
Zinsmeyer, Jorg See Horpacsy, Geza
Zipp, Adam See Turk, Richard S.
—; Watson, Craig; Greyson, Jerome, 1009
Zitzner, L. See Di Bella, F. P.
Zollinger, Lynn A. See Witherspoon, L. R.
Zumoff, Barnett See Kream, Jacob
Zweig, Mark H. See Van Steirteghem, Andre C.
—; Van Steirteghem, Andre C.; Schechter, Alan
N., 422
—; Van Steirteghem, Andre C., 1853

-; Van Steirteghem, Andre C., 1853 Zygowicz, Elizabeth See Miller, Joyce Zylber-Katz, Ester; Granit, Liora; Levy, Micha,

Volume 24, 1978 SUBJECT INDEX

KEY TO ABBREVIATIONS

L. letter O, opinion obit, obituary R. review

SM, Selected Methods SN, scientific note SR, special report

S, symposium paper

A, abstract of meeting paper CR, case report CC, case conference E, editorial H. history

See also Awards approves sustaining membership in NCCLS, 736 Arnold O. Beckman Conference in Clinical

Chemistry, 2nd. 1433 Arnold O. Beckman conference to deal with

biochemistry of cancer, 735 award winners, 846 Bernard J. Katchman Award, 1436 Chemists' Guide to Radioassay Products, 2nd

Chemista' Guide to Radioassay Products, 2nd ed. (SR), 122 inistory of Cleveland Section, AACC (H), 1647 history of the North Carolina Section, AACC (H), 2058 Max M. Friedman Memorial Lecture, 186 national meeting, 1978, 1658 national meeting program, 947 national meeting program, 947 national meeting, soci. workshops, 1065 1978 national meeting symposia, 965 national meeting symposia, 965 officers, 198

national meeting symposis, 300 officers, 186 proposed new AACC publication, 849 research by members of the AACC, 1972–1976 (L), 207 Selected Methods of Clinical Chemistry, 185

30th natl. meeting, 185 Young Investigator Award, 1091

ABCC preparing exams, 187 new ABCC diplomates, 187 Abused drugs See Drug assay, Toxicology

Accuracy See Analytical error

Acetaminophen
emergency detn. of acetaminophen (SN), 1642
rapid micromethod for acetaminophen detn. in

rapid, micromethod for the detn. of acetaminophen in serum by HPLC (A), 1007

gas-chromatog. method for plasma acetate anal. in acetate-intolerance (SN), 348 Acetoacetate

direct assays of lactate, pyruvate, \$\beta\$-hydroxybutyrate, and acetoacetate with a centrif. analyzer, 475 Acetoacetate decarboxylase

acetoacetate decarboxylase acty. of albumin (A), 1013 Acid-base balance

stable blood products for pHblood-gas qual. control, 793 Acidosis and alkalosis

evaln. of the Harleco Micro CO₂ system for measuring total CO₂ in serum, plasma (SN), Acid phosphatase

acid phosphatase and prostatic carcinoma (CC), 129 acty. of acid phosphatase in infancy and childhood (L), 2207 biochem. properties of tartrate-resistant acid phosphatase in serum of adults and children, 1105

children, 1105
characterization of the principal human
prostatic acid phosphatase isoenzyme,
purified by affinity chromatog. and
isoelectric focusing. Part II, 1783
counterimmunoelectrophoresis in detn. of
prostatic acid phosphatase in serum (SN),

140

inaccuracy detected in acid phosphatase kit methods (L), 168 preservation of acid phosphatase acty. in

preservation of acid phosphatase acty, in medico-legal specimens (SN), 486 purifn. of human prostatic acid phosphatase by affinity chromatography and isoelectric focusing. 1. 466 selective purifn. of tartrate-inhibitable acid phosphatases: purifn. (to homogeneity) of human and canine prostatic acid phosphatases, 1525 serum prostate-specific acid phosphatase: development and validation of a specific RIA. 1915

tartrate resistant acid phosphatase of human serum: normal values and biochem. props. (A), 1048

tartrate-resistant (band 5) acid phosphatase acty. measured by electrophoresis on acrylamide gel, 309 Acid pyrophosphatase

ochem. properties of tartrate-resistant acid phosphatase in serum of adults and

children, 1105
Acromegalic myopathy
presence of serum CK MB in acromegalic myopathy (A), 1047 Acute anoxia

acute anoxia stable, unusual isoenzyme of creatine kinase observed in case of acute anoxia (A), 1047 Acylcarnitines

Acytearnitines improved radiochem. assay for carnitine and its derivs. in plasma and tissue extracts, 32 Adenosine deamlnase microestimation of adenosine deaminase acty.

microesumation of agenosine deaminase acty.
in dried blood spots on filter paper, 591

Adenosine diphosphate
effects of endotoxin and anaphylactic shock on
plasma adenosine triphosphate, adenosine
diphosphate and creatine phosphate (A),

Adenosine triphosphate
effects of endotoxin and anaphylactic shock on
plasma adenosine triphosphate, adenosine
diphosphate and creatine phosphate (A),

Adenylate kinase

denylate kinase inhibition by adenosine 5-monophosphate and F—in detn. of creatine kinase acty. (SN), 498 adenylate kinase inhibition by creatine phosphate (L), 1289 anion-exchange chromatog, of erythrocytic and muscle adenylate kinase and its effect on serum CK isoenzyme assays, 2168 ddrenal function

Adrenal function adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 Age- and sex-related differences

individual character of varn. in time-series studies of healthy people. II. differences in values for clin. chem. analytes in serum nong demographic groups, by age and sex,

Age-related effects detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography, 122

Alanine lanine automated enzymic fluorometric assays for blood glucose, lactate, pyruvate, alanine, glycerol, and 3-hydroxybutyrate, 1724 dual-column cation-exchange chromatog, method for β-aminoisobutyric acid and β-alanine in biol. samples (S), 1373 simultaneous assays of lactate, β-hydroxybutyrate, alanine and ethanol (A).

Alanine aminotransferase optimization of methods for aspartate aminotransferase and alanine

aminotransferase, 58 Albumin See also Proteins acetoacetate decarboxylase acty. of albumin (A), 1013

automated serum albumin detn. by the immediate reaction with bromcresol green reagent (SN), 369,

continuous-flow anal. for serum albumin by the immediate reaction with bromcresol

the immediate reaction with bromcresol green (SN), 2036 improved continuous-flow (SMAC) detn. of serum albumin (SN), 1191 new albumin methods for the Technicon SMAC and STAC instruments, based on bromcresol-green dye binding (A), 1004 new automated dye-binding method for serum albumin detn. with bromcresol purple, 80 Phadebas amylase test with albumin (L), 2212 reactivity of Coomassie Brilliant Blue G-250 with human albumin and globuling (A). 1026

with human albumin and globulins (A), 1026

reducing the interference from globulins in bromcresol green detn. of serum albumin (A), 1004

RIA for urinary albumin, 1464 RIA for urine albumin (A), 999

Albumin/globulin ratio

A/G ratio in differentiation between bone and liver isoenzymes of alk. phosphatase (L),

Alcohol
Ca sulfate sorption for remote sampling in breath-alc. anal. (A), 1031
Alcohol dehydrogenase pitfalls of the alcohol dehydrogenase proced. for emergency assay of alcohol: a case study of isopropanol overdose (CR), 383
Alcoholic myopathy alcoholic myopathy alcoholic myopathy and changes in serum enzyme acty. (L), 1653
Alcoholism
alcohol and the liver (A), 975

Alcoholism
alcohol and the liver (A), 975
alcohol dependence in lab. animals (A), 976
alcohol metabolism and biochem. role in
pathogenesis of liver injury (A), 976
morphological features of acute and chronic
alcohol-based disease (A), 975
Alcohol withdrawal syndrome
plasma Ca, Cu, Mg, and Zn concns. in patients
with alcohol withdrawal syndrome, 1553
Aldosterone

Aldosterone

direct, nonchromatog. RIA of aldosterone:
validation of a kit, and age-related changes
in concns. in plasma, 1531
effect of temp, and cortisol on the distribution
of endogenous aldosterone in blood (L),
1291

1291 Alkaline phosphatase A/G ratio in differentiation between bone and liver isoenzymes of alk. phosphatase (L),

2214 artifactual alk. phosphatase isoenzyme band, caused by bilirubin, on cellulose acetate electropherograms (L), 178 case of isolated increase in serum alk.

phosphatase acty. (L), 1850 detection of renal isoenzyme of alkaline phosphatase in dialysis patients and its possible appn. to diagnosis of renal failure

effect of Mg on alk. phosphatase acty. in human serum using 2-amino-2-methyl-1,3-propanediol buffer

factors affecting measurement of total alkaline phosphatase acty. in serum, especially wavelength accuracy (SN), 938

wavelength accuracy (SN), 938 fast-migrating alk, phosphatase band (L), 2068 impurity in the buffer 2-amino-2-methyl-1-propanol that depresses values for alk, phosphatase acty. (SN), 1611 lipoprotein X and alkaline phosphatase as indicators of cholestasis (A), 1048 measurement of alkaline phosphate acty. evall., of inert and transphosphorylating evall.

evaln, of inert and transphosphorylating

evain. of inert and transprospriory atting buffer systems (A), 1001 modified colorimetric assay of inorg. P and alk, phosphatase in serum (L), 1847 standardization of alkaline phosphatase acty.

measurements, molar absorptivity of p-nitrophenol in various soln. environments (A), 1001 Allergy

Allergy diagnosis of allergy (A), 980 Alpha fetoprotein alpha fetoprotein RIA: isolation of alpha fetoprotein in milligram quantities from human cord serum (A), 999

Aluminum detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace, American Association for Clinical Chemistry See AACC Amines

liquid-chromatog. sepn. and fluorometry of biogenic amines in plasma, urine, and tissue (S), 1317

rapid quantitation of biogenic amines and metabolites by combination HPLC and ion-exchange chromatog. (A), 1051 mino acid composition RIA of creatine kinase isoenzymes in human

serum: Isoenzyme BB, 422 γ-Aminobutyric acid

γ-Aminobutyric acid automated assay of γ-aminobutyric acid in human CSF, 256
Aminoglycoside antibiotics liquid-chromatog, assay of aminoglycoside antibiotics in serum, 1940
Aminoglycoside netilmicin quenching fluoroimmunoassay for aminoglycoside netilmicin (A), 1033
Aminoglycosides measurement of three aminoglycoside antibiotics with a single RIA system, 1734
β-Aminoisobutyric acid dual-column cation-exchange chromatog.

p-Aminoisobutyric acid dual-column cation-exchange chromatog. method for p-aminoisobutyric acid and g-alanine in biol. samples (8), 1373 Aminolaevulinate dehydratase sex-related differences in the ref. values for erythrocytic b-aminolevulinic acid dehydratase acty. (L), 726 Amitriotyline Amitriptyline

detn. of therapeutic concns. of amitriptyline and nortriptyline in serum using electron impact mass fragmentography (A), 992 effects of blood-collection tubes on plasma, sera, and blood levels of amitriptyline and

nortriptyline (A), 1059 monitoring amitriptyline and nortriptyline by chem. ionization mass fragmentography (A),

Ammonia

comparison of modified ion-exchange and enzymatic methods for detng. plasma ammonia in pediatric patients (A), 1012 development and clin. anal. of automated method for plasma NH₃ on Du Pont 'aca'

method for plasma NH₃ on Du Pont 'aca' (A), 997 enzymic detn. of plasma NH₃: evaln. of Sigma and BMC kits (SN), 2044 evaln. of Sigma and BMC kits for detn. of plasma ammonia (A), 1018 evaln. of the Du Pont aca ammonia procedure (SN), 489

fully automated kinetic assay for plasma NH3

microenzymatic method for detn. of NH₃ in plasma (A), 996 modified micro-scale enzymic method for

modified micro-scale enzymic method for plasma NH₃ in newborns, pediatric patients; comparison with modified cation-exchange procedure (SN), 2172 two-point detn. of plasma NH₃ with the centrifugal analyzer, 782

two-point detn. of plasma NH₃ with the eentrifugal analyzer, 782

Amniotic fluid application of Technicon's SMAC to the analysis of amniotic fluid (L), 1086 effect of phosphatidylglycerol, phosphatidylinositol and phosphatidylserine on microviscosity detd. by DPH fluorescence polarization of dispersions of lecithin and sphingomyelin (A), 1045 evaln. of Beckman Creatinine Analyzer 2 on serum and amniotic fluid (A), 1062 hexosaminidase A in amniotic fluid of Tay-Sachs fetuses, 1131 increased renin concn. in plasma and amniotic fluid during storage (SN), 933 mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899 modified method for estg. the L/S ratio in amniotic fluid (L), 174 rational basis for foam-stability assays of amniotic fluid surfactant, 1980 RIA of alpha-fetoprotein, with special ref. to iodination and purifn. techniques, 275 simultaneous detn. of phosphatidylglycerol and the lecithin:sphingomyelin ratio in amniotic fluid, 1144

Amperometry coupled reactions of immobilized enzymes and

Amperometry
coupled reactions of immobilized enzymes and
immobilized substrates: clin. application
exemplified by amylase assay (\$), 1393
evaln. of a glassy-carbon electrode for
amperometric detection of selected serum
methylxanthines after separation by

reversed-phase chromatog. 1711

Amphetamines negative-ion mass spectrometry of amphetamine congeners, 1720

mytase absorbance change in the visible region should be reconsidered for assay of starch cleavage by a-amylases (L), 1085 acute pancreatitis, hyperlipemia, and normal amylase, 815

adaptation of Beckman enzymatic amylase kit to the centrifugal analyzer (A), 1035

albumin activation of urinary amylase as detnd, with the Du Pont aca (SN), 702 comparison of reults obtained for amylase clearance and amylase creatinine clearance.

ratio by Somogyi and amylochrome methods (A), 1036 coupled reactions of immobilized enzymes and immobilized substrates: clin. application exemplified by amylase assay (S), 1393

effect of protein concn. on amylase assays (A),

enzyme-coupled u.v. detn. of α -amylase acty. with the GEMSAEC centrifugal analyzer (SN), 1620

(SN), 1620
evaln. of improved Beckman enzymatic
amylase, amylase-DS (A), 1035
kinetic measurement of α-amylase with a
centrifugal analyzer (SN), 1644
kinetics of the Beckman enzymic method for
serum and urinary amylase, 762
lab. evaln. of kinetic amylase procedure (A),
1036

1036
marked hyperamylasemia associated with carcinoma of the lung (CR), 1207 modified continuous-flow detn. of α-amylase activity in serum and urine with the Phadebas amylase test (L), 515 multilayer film elements for clin. anal.:

applications to representative chem. detns. (S), 1343 new method for detn. of α-amylase (A), 1000

Phadebas amylase test results for human sera in presence and absence of albumin (L), 2061

Phadebas amylase test with albumin (L), 2212 serum amylase with Du Pont Automatic Clin. Anal. and Technicon AutoAnalyzer (A),

substrate studies in uv method for quantitation of amylase activity (A), 1000 Analgesics

gas-chromatog, detn. of ng amts. of enantiomers of nortilidine, a main metabolite of tilidine, in biol. specimens,

Analytical error
See also Variation, source of additive, multiplicative, and mixed anal. errors, 1895

errors, 1895
adenylate kinase inhibition by adenosine
5'-monophosphate and F'- in detn. of
creatine kinase acty. (SN), 498
an echelle spectrometer:image dissector
system evald, for simultaneous multielement
detns. by atomic absorption spectroscopy,

bovine serum albumin interference in RIA (L),

tool (cephalosporin antibiotics interfere with anal. for theophylline by high-performance liquid chromatog. (L), 838 contamination-free serum samples for trace anal. (L), 169 effect of in vitro beautiful and the service of the serv

effect of in vitro hemolysis on chem. values for serum, 1966

serum, 1966
electroimmunoassay, RIA, and radial
immunodiffusion assay evaluated for human
apolipoprotein B, 280
inaccuracy detected in acid phosphatase kit
methods (L), 168
influence of layer description.

influence of large doses of ascorbic acid on lab. test results, 54

test results, 54 inter-batch quality differences in purified human prolactin (SN), 941 interference by tubing material in continuous-flow systems (SN), 2170 measurement of cholesterol in serum: interlab.

measurement of cholesterol in serum: interlab.
study of factors influencing accuracy and
precision (A), 1046
method-specific variations in the calibration of
a new immunoglobulin std. suitable for use
in nephelometry, 531
microbial contamination of automated
analyzers (L), 1288
neonatal hypothyroid screenother sources of
error, and their elimination (L), 836
performance evaln. of multi-channel analyzers
by use of linearly-related survey specimens,
403
mitfalls of the alcohol dehydrogenase proced.

403 pitfalls of the alcohol dehydrogenase proced. for emergency assay of alcohol: a case study of isopropanol overdose (CR), 383 source of error in detn. of erythrocyte folate by competitive binding radioassay (L), 388 thyroid hormone contamination in cryst. diadotyrosine, 1738

diodotyrosine, 1738 total social cost to misassigned discriminant values: effects of anal. precision (A), 1049 turbidity of commercial . control sera and effect on anal. variance (A), 1021 Zn contamination in a trace-element control

serum (L), 1652 Analytical particle electrophoresis anal. particle electrophoresis applied to immunologic research (S), 1300

Immunologic research (5), 1000
Analytical systems
See also Centrifugal analyzers
approach for the evaln. of anal. performance
of automated instrumentation: application
to new 36-cuvette centrifugal analyzer (A),

An

An

An

An

An

Ap

Art

Ar

Ası

chromatog. sepn. and continuously referenced, on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408 computer-controlled instrument system for sequential chem. testing III. Application to liver assessment, 555 development of novel printing technique for fabrication of reagent test-strips (A), 1005 evaln. of completely automated, totally ion-selective, electrolyte analyzer (A), 1062 evaln. of the multichannel analyzer, "Astra-8", 2125 high-speed automated at absence.

2125
high-speed automated at. absorp.
spectrophotometry (SN), 344
multilayer film elements for clin. anal.: general
concepts (S), 1335
multilayer film elements for clin. anal.:

applications to representative chem. detns. (S), 1343

(S), 1943 performance evaln. of selected tests on the Beckman Automated Stat Routine Analyzer (ASTRA) (A), 1009 STAC: initial evaluation (A), 1060

Analyzer

Analyzer
See specific type or analyte
Anaphylactic shock
effects of endotoxin and anaphylactic shock on
plasma adenosine triphosphate, adenosine
diphosphate and creatine phosphate (A), 1012

Androgens androgen concns. and their clin. signif. in prostate tissue (A), 1044 Androstenedione

clin. use of new 11α-conjugated antiserum to androstenedione (A), 1044 Anemia

anal. for glutathione in blood by high-performance liquid chromatog. 1140 microestimation of adenosine deaminase acty. in dried blood spots on filter paper, 591 serum haptoglobin concons. in "pure" iron-deficiency anemia (L), 839

Angiotensin ngrotensin
porous silica gel as solid support for
immobilization of proteins. II. goat
anti-rabbit serum as second antibody in
angiotensin I RIA (A), 1042

Angiotensin-converting enzyme fluorogenic substrate for angiotensin-converting enzyme in plasma, 1539

Angiotensin I

faster RIA of angiotensin I at 37 °C, 115 optimization of antigen-antibody reaction for measurement of angiotensin I (A), 1043 Animal models of disease

biochem. changes in a porcine model of acute pancreatitis, 881

Anion gap direct assays of lactate, pyruvate, \$\beta\$-hydroxybutyrate, and acetoacetate with a centrif. analyzer, 475 Antibiotics

antibiotic assays and immunologic detection of bacteria (A), 983

improved enzymatic assay of chloramphenicol, 1452

measurement of three aminoglycoside antibiotics with a single RIA system, 1734 validation of single RIA system for measurement of three aminoglycoside antibiotics (A), 992 Antibodies

rapid quantitation and characterization of insulin antibodies, 890

Insuin antibodies, 930
Anticonvulsant drugs
See also drug of interest, Antiepileptic drugs,
Drug assay, Toxicology
evaln. and application of Jetube extn. system
for simultaneous quantification of
anticonvulsant drugs by GLC (A), 990
simultaneous HPLC anal. of most common
anticonvulsant drugs and their protabilities.

anticonvulsant drugs and their metabolites (A), 1006 Anticonvulsants

nticonvulsants adaptation of EMIT antiepileptic drug assays to centrifugal analyzers (A), 1056 improved gas-chromatog, anal. for anticonvulsants (L), 1854 quantitation of anticonvulsant drugs in serum

by gas-chromatog, on the stationary phase SP-2510 (SN), 483 re-appraisal of interlab. variability in antiepileptic drug detns. (A), 1050

simplified EMIT methods for centrifugal spin

analyzer (A), 1057 simultaneous liquid-chromatog. detn. of 12 common sedatives and hypnotics in serum, stability of some antiepileptic drugs in plasma (L), 722 Antidepressants

ntidepressants
detn. of a tricyclic antidepressant,
clomipramine (Anafranil), in plasma by a
specific RIA procedure, 36
RIA for nortriptyline (and other tricyclic
antidepressants) in plasma, 549

Anti-DNA antibody comparison of anti-DNA antibody as detected by the Farr technique and the FIAX

immunofluorescence assay (A), 1018
Antiepileptic drugs
See also Anticonvulsants, Anticonvulsant

See also Anticonvulsants, Anticonvulsant drugs appn. of time-programmable variable wavelength detector to the HPLC anal. of antiepileptic drugs (A), 1008
Antigenic determinants quantit. ultramicro-scale immunoenzymic metiod for measuring lg antigenic determinants in single cells (S), 1325
Antigen recognition by cells anal. particle electrophoresis applied to

anal. particle electrophoresis applied to immunologic research (S), 1300 Antisera, characterization of simple RIA of cortisol in plasma, 1468 Antitrypsin

ntitrypsin selective staining of α_1 -antitrypsin (α_1 -protease inhibitor) with Schiff's reagent after sepn. from serum by anal. isoelectrofocusing in polyacrylamide gel (SN), 153

Apnea serum cholinesterase activity: predictor of succinyl choline sensitivity? assessment of four methods, 1762 Apolipoprotein B

polipoprotein B electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 enzyme immunoassay for human apolipoprotein B, the major protein moiety in low-density and very-low density lipoproteins, 455 estn. of apolipoprotein B by immunonephelometry, 788 regentaffinms

Argentaffinoma simple detn. of high urinary excretion of 5-hydroxyindole-3-acetic acid with ferric chloride (SN), 149

Arteriosclerosis
See Cholesteral, Heart disease, Lipids

See Cholesteral, ricart disease, Lipius Artificial kidney bis(2-ethylhexyl) phthalate concns. in the serum of hemodialysis patients, 741 Aryl acetic ester hydrolase biochem. characterization of an aryl acetic ester hydrolase from human monocytes,

Arylsulfatase sepn. and anal. of arylsulfatase isoenzymes in body fluids of man (S), 1305

sbestos
putative inhibitory effect of chrysotile
asbestos on glycoproteins and complex
glycolipids biosynthesis in cell culture (A),
1013 Asbestos

Ascorbic acid Ascorbic acid
ascorbic acid and Fe metab. in Macaca
fasicularis (Cynomolgus) monkey (A), 1014
effect of ascorbic acid in vitamin B₁₂
quality-control sera (L), 176
influence of large doses of ascorbic acid on lab.
test results, 54
Aspartate aminotransferase

spartate aminotransferase acty. of some commercially available control sera, measured with and without added pyridoxal-5-phosphate (L), 841 aspartate aminotransferase acty. and isoenzyme proportions in human liver tissue, 1971

column chromatog, method for sepg, isoenzymes of aspartate aminotransferase (A), 989

(A), 989
column-chromatog, sepn. of isoenzymes of
aspartate aminotransferase, 1805
evaln. of interlab, performance for aspartate
aminotransferase (A), 990
homogeneous immunoassay for isoenzymes of

aspartate transaminase: method evaln. and comparison (A), 990 immunochem. inhibition assay for

measurement of mitochondrial aspartate aminotransferase in serum (A), 989 improved serum initiated aspartate aminotransferase (AST) assay (A), 989

interlab, study of measurement of aspartate aminotransferase acty. with use of purified enzyme, 916

measuring aspartate aminotransferase acty. in small samples (L), 837 optimization of methods for aspartate aminotransferase and alanine aminotransferase, 58

aminotransierase, 30 optimized measurement of aspartate aminotransferase acty. with the CentrifiChem Analyzer, with automatic preincubation of serum, 1147-provisional recommendations on IFCC

methods for measurement of catalytic concns. of enzymes. Part 3. revised IFCC method for aspartate aminotransferase (SR), 720 strip test for quantitative detn. of glutamic

kalacetic transaminase in serum (A), 1037

ASTRA

performance evaln. of selected tests on the Beckman Automated Stat Routine Analyzer (ASTRA) (A), 1009

Astra-8 evaln. of the multichannel analyzer, "Astra-8", 2125

Atherosclerosis

therosclerosis
lecithin:cholesterol acyltransferase response to
dietary cholesterol loading (L), 2068
lipid transport in lipoproteins: role in
atherosclerosis (A), 978
relation of hypertension, lipids, and
lipoproteins to atherosclerosis (R), 2081
serum Cr and angiographically detnd.
coronary artery disease, 541
spectrodensitometry of nanogram quantities of
cholesterol, 1496

cholesterol, 1496

Atomic absorption spectrometry
anal. for Ni in plasma and urine by
electrothermal at. absorption spectrometry, with sample preparation by protein pptn.

with sample preparation by protein pptn. (SN), 1198
atomic absorp, spectrophotometry of free circulating Pt species in plasma derived from cis-dichlorodiammineplatinum(II), 877
interlab, comparisons of N anal, in urine by atomic absorp, spectrometry, 862
Atomic absorption spectrophotometry.
See also Atomic absorption spectroscopy detn. of Al in biol, samples by at, absorption spectrophotometry with a graphite furnace, 1485

Atomic absorption spectroscopy anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 1182 an echelle spectrometer:image dissector system evald. for simultaneous multielement detns. by atomic absorption spectroscopy,

detns. by atomic absorption spectroscopy, 602
at. absorption anal. for Cr in serum and urine with modified Perkin-Elmer 603 at. absorption spectrophotometer, 2151 blood and urine Pb anal. by Zeeman effect flameless atomic absorption (A), 1031 detection and elimination of contaminations

interfering with the detn. of Zn in plasma,

detn. of Cd in urine by graphite-furnace atomic absorption spectroscopy, 681 detn. of Pt and Ga by flameless atomic absorption spectrophotometry, (A), 1058 evaln. of simple atomic absorption system measurement of Ca and Mg in body fluids (A), 1028

(A), 1028
flameless atomic absorption
spectrophotometric detn. of Mn in rat brain
and other tissues, 471
high-speed automated at. absorp.
spectrophotometry (SN), 344
methods compared for determining Zn in
serum by flame at. absorp. spectroscopy, 240
plasma Ca, Cu, Mg, and Zn concns. in patients
with alcohol withdrawal syndrome, 1553
whole blood Hg anal. by flameless atomic
absorption (A), 1029
TPase

improved procedure for meas. of erythrocyte
Na*, K*,ATPase inhibition in patients on
digoxin therapy: correlation with serum
digoxin (A), 1055
Australian antibody.

See Hepatitis B antibody; Hepatitis B antigen

See Information for Authors AutoAnalyzer
See Continuous-flow analyzer

Automated analyzer
See Analytical system
Autoradiography

utoraciography quant. cytochem.: the basis of sensitive bioassays for comparison of bio- and immuno-reactive hormone values (S), 1399

See also AACC

Albert L. Chaney Award, 186 award winners, 846 Bernard J. Katchman Award, 1436 Berson Yalow Award, 737 Distinguished Service Award, 737 Osunguisned Service Award, 13 Gerulat Award, 737 Natelson Award, 186 Roe Award, 737 Young Investigator Award, 1091 Azathioprine

serum and urinary lysozyme acty. after kidney transplan.: influence of graft function and therapy with azathioprine, 74

enzymatic detn. of triglycerides in human and baboon serum (SN), 354 Barbiturates

See Drug assay

Bile acids
bile acids measured in serum during fasting as a test for liver disease, 1095 continuous-flow detn. of bile acids in serum,

and clin. application, 1150 sepn. of glycine and taurine conjugated bile acids by high pressure liq. chromatogr. (A), 1051

solid phase RIA for detection of conjugated bile acids in human serum (A), 1000

Bilirubin

Illrubin azide interference with bilirubin procedures using diazotized sulfanic acid (Ehrlich's reagent) (L), 2071
 bilirubin-protein interactions monitored by difference spectroscopy, 1491
 detn. of total bilirubin using STAC analyzer

system (A), 1060 direct-reacting and total bilirubin assays with

commercial reagents and rapid centrifugal analyzer (A), 1020 effect of bilirubin on direct kinetic detn. of

effect of bilirubin on direct kinetic detn. of serum creatinine (A), 1022 evaln. of a kinetic method for simultaneous detn. of conj. and unconj. bilirubins, 1700 evaln. of stopped-flow method for kinetic detn. of bilirubin (A), 1022 r-glutamyltransferase acty. and bilirubin concn. (L), 723

improved method for accurate quantitation of total and direct bilirubin in serum (A), 1022 kinetics of reactions of unconj. and conj. bilirubins with p-diazobenzenesulfonic acid,

nessurement of various forms of bilirubin in serum (L), 1651
method for specific and direct detn. of bilirubin and its mono- and diglucuronides by HPLC (A), 1023
modified Jendrassik-Grof method for bilirubins adapted to the Abbott
Bichromatic Analyzer (SN), 1841
multilayer film elements for clin. anal.: applications to representative chem. detns. (S), 1343

novel kinetic method for measurement of

conjugated bilirubin with centrifugal analyzer (A), 1022 simplification of alkaline blue azobilirubin

method (Jendrassik-Grof) (A), 1023 soln. to the problem of bilirubin interference with the kinetic Jaffe method for serum creatinine (SN), 1196

creatinine (5.14), 1130
studies of various solvent accelerators for optimizing centrifugal analyzer total bilirubin method (A), 1022
test-strip method for quant. detn. of total bilirubin in serum (A), 1009
Biological and analytical variation

detn. of Cr and Co in serum by neutron activn. anal. 303

indix Juby individual character of varn. in time-series studies of healthy people. II. differences in values for clin. chem. analytes in serum among demographic groups, by age and sex,

variance components of serum constituents in healthy individuals, 212 Biological rhythmas time-concn. studies by liquid chromatography of metabolites removed during hemodialysis,

Biometry

See also Statistics determining the probability of result abnormality, 640

development and evaln. of a glucose analyzer for a glucose-controlled insulin infusion system (Biostator) (S), 1366 Biphenyls

Biphenyls serum anal. for polybrominated biphenyls and polychlorinated biphenyls (A), 1030 1,3-Bis(2-chloroethyl)-1-nitrosourea anal. for 1,3-bis(2-chloroethyl)-1-nitrosourea by chem. ionization mass spectrometry, 45

Bis(2-ethylhexyl) phthalate

bis(2-ethylhexyl) phthalate concns. in the serum of hemodialysis patients, 741 Bisalbuminemia

bisalbuminemia. new molecular variant, Albumin Vancouver, 1912

Biuret reagent evaln. of EDTA-chelated biuret reagent containing glycine and NaCl (L), 513

Containing glycine and NaCi (L), 513

Blood fractionation
automated system for fractionation of blood
samples (Å), 1064
automated system for fractionation of blood
samples (Š), 1361

Blood gases
analytical precautions in measurement of
blood CN (SN), 2184
clarification on the Corning 175 Blood Gas
Analyzer (L), 1085
clin. evaln. of Sentorr Blood Gas Analyzer (A),

1005

1005
comparison of modified ion-exchange and enzymatic methods for detng. plasma ammonia in pediatric patients (A), 1012 development and clin. anal. of automated method for plasma NH₃ on Du Pont 'aca' (A) 1007

method for plasma NH₃ on Du Pont 'aca' (A), 997 enzymic detn. of plasma NH₃; evaln. of Sigma and BMC kits (SN), 2044 erroneous temp. corrections for blood pH and gas measurements (L), 1850 evaln. of the Harleco Micro CO₂ system for measuring total CO₂ in serum, plasma (SN), 143

143

fully automated kinetic assay for plasma NH₃ (A), 996

(Å), 996 microenzymatic method for detn. of NH₃ in plasma (A), 996 modified micro-scale enzymic method for plasma NH₃ in newborns, pediatric patients; comparison with modified cation-exchange procedure (SN), 2172 more on blood HCO₃ measurement (L), 1082 new whole blood oximeter control for monitoring instrumentation which reports oxy Hb, carboxy Hb, met Hb, O₂ content and total Hb (A), 1064 quality control of measurements of pH. CO₂

quality control of measurements of pH, CO₂ tension, and total CO₂ in plasma (SN), 1618 source of error in use of the Corning 175 Blood Gas Analyzer (L), 722 stable blood products for pH blood-gas qual.

control, 793
variation of pK': computation of [HCO₃mins]
independent of pK' and soly. coeff. (L), 1081

Blood urea nitrogen

associations with body weight of some chem. constituents in blood: epidemiologic data, 772

Bone marrow

creatine kinase BB isoenzyme activity in bone-marrow serum (L), 1423

Bone marrow aspirates creatine kinase acty. in bone marrow aspirates (A), 1047

Book reviews

Computers in the Clinical Laboratory: An

Computers in the Clinical Laboratory: An Introduction, 2219
Disposition of Toxic Drugs and Chemicals in Man, 1 Centrally-Acting Drugs, 1429
Drug Fate and Metabolism. Methods and Techniques, 2, 1088
Dx + Rx. A Physician's Guide to Medical Writing, 845

Writing, 840
Education and Training for Clinical
Chemistry, 181
Endocrine Pathophysiology: A Patient
Oriented Approach, 733
Fundamentals of RIA and Other Ligand
Assays, A Programmed Text, 733

Handbook of Derivatives for Chromatography, 844

844
Heraclitean Fire, Sketches from a Life before
Nature, 2075
High Performance Thin-Layer
Chromatography, 182
Insulin and Metabolism, 1088
Integration and Coordination of Metabolic
Processes. A Systems Approach to
Endocrinology, 2075
Liquid Chromatography Detectors, 844
Management and Cost Control Techniques for
the Clinical Laboratory, 1293

Management and Cost Control a Control and the Clinical Laboratory, 1293
Management of the Poisoned Patient, 844
Methods for the Centrifugal Analyzer, 1656
Oxalic Acid in Biology and Medicine, 845
Plasma Proteins. Analytical and Preparative

Plasma Proteins. Analytical and Preparative Techniques, 1429
Principles of Applied Clinical Chemistry, 2, The Erythrocyte: Chemical Composition and Metabolism, 2075
Prolactin, 5, 1977, 1860
Quality Control in Laboratory Medicine, 1861 Quantitative Mass Spectrometry, 1428 Quantitative Mass Spectrometry in Life Sciences, 394

Sciences, 399
RadiochromatographyThe Chromatography
and Electrophoresis of Radiolabelled
Compounds, 2219
Radiotracer Techniques and Applications 2,

SI Units in Medicine. An Introduction to the International System of Units with Conversion Tables and Normal Ranges,

Taurine and Neurological Disorders, 1430 The Life Science: Current Ideas of Biology,

Trace Elements in Human Hair, 1859 Bromcresol green

automated serum albumin detn. by the immediate reaction with bromcresol green reagent (SN), 369

Bromcresol purple new automated dye-binding method for serum albumin detn. with bromcresol purple, 80

albumin detn. with bromcresol purple, 80 Buffer
D(-)-N-methylglucamine buffer for pH 8.5 to 10.5 (SN), 379 impurity in the buffer
2-amino-2-methyl-1-propanol that depresses values for alk, phosphatase acty. (SN), 1611 non-barbital buffer for immunoelectrophoresis and zone electrophoresis in agarose gels (SN), 1825 (SN), 1825

Bupivacaine

gas-liquid chromatog, detn. of bupivacaine and lidocaine in plasma, 1573

and lidocaine in pussila, and communication of Cd in urine by graphite-furnace atomic absorption spectroscopy, 681 interlab. comparison of Pb and Cd in blood, urine, and aq. solns. 1797

\(\beta\)_Pmicroglobulin in urine as index of chronic Cd exposure (A), 1012

reduced-volume RIAs for parathyrin and calcitonin in serum, for pediatric, small-animal studies (SN), 1833 RIA of calcitonin in the plasma of rhesus

monkey and man, 595 Calcium

actum
detn. of ionized Ca with the Orion SS-20 and
AMT Electrion Auto compared (L), 2066
effect of membrane potential on dialysis of Ca
in continuous-flow system, 2103
evaln. of commercially available method for
parathypid hormone, assocn of values with

evain. or commercially available method for parathyroid hormone; assocn. of values with total and ionized calcium (A), 993 evaln. of the "Space Stat 20 Ionized Calcium Analyzer" (L), 731 experience with Orion Ionized Ca Analyzer SS20 in community hospital (A), 1029 measurement of free Ca ion in capillary blood and serum, 1545

measurement of tree Ca ion in capitary of and serum, 1545 plasma Ca, Cu, Mg, and Zn concns. in pati with alcohol withdrawal syndrome, 1553 posture and plasma composition (SN), 824 procedure for detn. of serum calcium on

Gilford 3500 Computer-Directed Analyzer (A), 1062

(A), 1062 serum ionized Ca and corrected total Ca in borderline hyperparathyroidism, 1962 Calibration materials

See also Quality control

See also Quality control
Calorimetry
direct anal. for cholesterol in gallstones by use
of differential scanning calorimetry
transition phase, 119
non-equilibrium enzyme immunoassay of
gentamicin, 1770
prospective applications of calorimetry in the
clin. lab. (S), 1414

acid phosphatase and prostatic carcinoma (CC), 129

ser

sim

stu

tar

thi

tot

tu

Can Se

Car

an

di

Car

Car

Car

Car

Cas Cat

anal. cytology in cancer detection (A), 969 anal. for 1,3-bis(2-chloroethyl)-1-nitrosoures by chem. ionization mass spectrometry, 45 anal. for tamoxifen, an anti-neoplastic agent, in plasma, 1518

in piasma, 103
assay of an antitumor protein,
neocarzinostatin, and its antibody by
fluorescence polarization, 2139
atomic absorp, spectrophotometry of free
circulating Pt species in plasma derived
from cis-dichlorodiammineplatinum(II), 877
characterization of myeloma protein by

isoelectric focusing-immunofixation (A), 1027

comparison of protamine sulfate and dextran-coated charcoal assays for estrogen receptor (A), 1004 correlation between carcinoembryonic antigen

and new cancer-related glycoprotein pattern in cancer patients (A), 1003 counterimmunoelectrophoresis in detn. of prostatic acid phosphatase in serum (SN), 140

creatine kinase acty. in bone marrow aspirates (A), 1047 creatine kinase isoenzyme of high relative mol.

mass in serum of a cancer patient (CR),

creatine kinase isoenzymes in serum of patients with cancer of various organs (L),

detn. of Pt and Ga by flameless atomic absorption spectrophotometry (A), 1058 detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass

and dopamine metabolites in urine by mass fragmentography, 122 dual-column cation-exchange chromatogmethod for β -aminoisoburvic acid and β -alanine in biol. samples (S), 1373 effects of chemotherapy on clin. chem. of mice bearing breast tumors (A), 1052 enhanced inhibn. of protein synthesis and enzyme activity by aged anti-neoplastic platinum complexes, cis and trans-dichlorodiammine platinum (A), 1004 environmental carcinogenesis (A), 971

trans-dichlorodiammine platinum (A), 1004 environmental carcinogenesis (A), 971 excretion of X-prolyl dipeptidyl-aminopeptidase in urine as detad with a new fluorogenic substrate, 1163 experience with computer aided assay for estradiol receptor in breast cancer (A), 1041 gas-chromatog, detn. of polyol profiles in CSF, 545

increased lysosomal enzymes in lung carcinoma (A), 1002 is pterin-6-aldehyde diagnostic for cancer?

(A), 1002 liquid-chromatog, sepn. and fluorometry of biogenic amines in plasma, urine, and tissue

(S)

(a), 1311
marked hyperamylasemia associated with carcinoma of the lung (CR), 1207
mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899
measurements of serum ceruloplasmin to

possible clin. Insertuness, 1693
measurements of serum ceruloplasmin to monitor tumor growth in rats (A), 1052
modn. of choriogonadotropin beta-subunit RIA for detn. of urinary choriogonadotropin, 1958
more on gas-liquid chromatog. detn. of homovanilic and wanilylimandelic acids in urine from cases of neuroblastoma (L), 842
practical RIA for thyroglobulin, 267
prelim. evall. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or benign neoplasms, 868
presence of sialyltransferase in human breast and colon cancer (A), 1003
production of follicle stimulating hormone by human trophoblastic and non-trophoblastic tumors (A), 1003
rapid detn. of light halogenated hydrocarbons in urine; 1109
RIA for urinary lysozyme in human serum

in urine 1109
RIA for urinary lysozyme in human serum
from leukemic patients, 2155
screening for urinary oligosaccharides in a
mentally handicapped population and
patients with other diseases (SN), 714
selective purifin. of tartrate-inhibitable acid
phosphatases: purifin. (to homogeneity) of
human and carrine nestetic selective.

phosphatases: purifn. (to homogeneity) of human and canine prostatic acid phosphatases, 1525 sepn. and anal. of arylsulfatase isoenzymes in body fluids of man (S), 1305 serum enzymes in cancer patients (L), 727 serum enzymes in clangenosis of hepatic metastatic carcinoma (L), 839 serum glycoprotein electrophoresis in patients with metastatic cancer (A), 1003

serum prostate-specific acid phosphatase: development and validation of a specific RIA, 1915

simplified Scatchard plot assay for progesterone receptor in breast cancer: comparison with single-point and multipoint assay, 1170

assay, 1170 some changes in IgG immunoglobulin concns. in Co-60 treated cancer patients as detected by comparison of results from two anal. methods (A), 1026 studies on in-vitro effects of tumor cell

radiosensitizing drug on serum enzyme activities (A), 1036 tartrate resistant acid phosphatase of human serum: normal values and biochem. props. (A), 1048

serum: normal values and biochem. props.
(A), 1048
tartrate-resistant (band 5) acid phosphatase
acty, measured by electrophoresis on
acrylamide gel, 309
three radioligands, Se-75, I-125, and Tritium,
compared in RIA of methotrexate, 1534
total LDH activity and isoenzyme distribution
as predictors of cancer in cavity fluids,
correlation with cytolog, and histolog,
findings (A), 1048
tumor markers in CSF for differential
diagnosis of CNS metastasis (A), 1002
urinary polyamine excretion during the
menstrual cycle, 769
use of vertical rotor to facilitate estrogen and
progesterone receptor anal. (SN), 1609
Cannabinoids
See Marihuana

See Marijuana See Marijuana Carbamazepine

anal. for carbamazepine in serum by electron-capture gas chromatog. 895 differential micro detn. of carbamazepine and its epoxide metabolite by

its epoxide metabolite by spectrophotofluorometry (A), 991 optimization of a centrifugal analyzer EMIT procedure for carbamazepine with fourfold reduction of reagent cost (A), 1058 Carcinoembryonic antigen

Carcinoembryonic antigen buffer-exchange column for rapid sepn. of carcinoembryonic antigen from perchloric acid (SN), 135 evaln. of a new RIA for carcinoembryonic antigen (L), 727 Carcinoid tumors simple detn. of high urinary excretion of 5-bufforwindle-3-acetic acid with ferric

5-hydroxyindole-3-acetic acid with ferric chloride (SN), 149

Cardiac disease ee Heart diseas

Carnitine improved radiochem, assay for carnitine and its derivs, in plasma and tissue extracts, 32

Carotenoids carotenoids in the leukocytes of carotenemic and non-carotenemic individuals (SN), 700 Case conferences case conferences (E), 128; 129, 815, 1603 (CC)

case conferences (E), 128; 129, 815, 1603 (CC)
Catecholamines
detn. of 3-nethoxy-4-hydroxyphenylpyruvic
acid, 3,4-dihydroxyphenylethylene glycol,
and 3,4-dihydroxyphenylmandelic acid in
urine by mass fragmentography, with
²H-labeled intern. stds. 2001
double- and single-isotope enzymatic
derivative methods compared for measuring
catecholamines in human plasma, 567
mass-fragmentographic detn. of catecholamine
metabolites in amniotic fluid and its
possible clin. usefulness, 1899
methyldopa as an int. std. for catecholamine
analysis by use of liquid chromatog. (L),
1290

1290

plasma catecholamine measurement in

plasma catecholamine measurement in hypertension (A), 993 possible rationale for neurobehavioral effects of catecholamine-related tetrahydroisoquinolines: regional alterations in brain serotonin and dopamine (A), 995 radioenzymatic assay of DOPA (3,4-dihydroxyphenylalanine), 1927 urinary catecholamine measurements in trauma-septic patients using high pressure liq. chromatog, with electrochem. detection (A), 1041

Cefuroxime liquid-chromatog. assay of cefuroxime in serum (SN), 365

Cellular damage aspartate aminotransferase acty. and isoenzyme proportions in human liver tissue, 1971 Centrifugal analyzer

See also specific analyte of interest adaptation of Beckman enzymatic amylase kit to the centrifugal analyzer (A), 1035 adaptation of EMIT antiepileptic drug assays to centrifugal analyzers (A), 1056

approach for the evaln. of anal. performance of automated instrumentation: application to new 36-cuvette centrifugal analyzer (A),

automated pseudocholinesterase method for toxicological studies of drugs and pesticides
(A), 1005

(A), 1005 automatic loading of a centrifugal analyzer for enzyme immunoassays (L), 1285 CentrifiChem methodology applied to selected renal enzymes in rat urines (A), 1052 cost-effective approach to AED monitoring using 36-cuvette centrifugal analyzer (A), 1060

1060
detn. of high-density lipoprotein cholesterol in serum with a centrifugal analyzer (A), 1024
direct assays of lactate, pyruvate,
β-hydroxybutyrate, and acetoacetate with a centrif. analyzer, 475
direct-reacting and total bilirubin assays with commercial reagents and rapid centrifugal analyzer (A), 1070

commercial reagents and rapid centrifugal analyzer (A), 1020 enzyme-coupled measurement of ethanol in whole blood and plasma with a centrifugal analyzer, 873 enzyme-coupled u.v. detern. of a-amylase acty. with the GEMSAEC centrifugal analyzer (SM) 1-620.

(SN), 1620

enzyme immunoassay of theophylline with a centrif. analyzer, and comparison with uv method (L), 514

method (L), 514
enzyme immunoassay of theophylline with
centrifugal analyzer (A), 1057
enzyme immunoassay, with use of a
centrifugal analyzer, of phenytoin,
phenobarbital, and theophylline (L), 391
erythrocyte 2,3-diphosphoglycerate anal. by
centrifugal analyzer (A), 1054
factors affecting measurement of total alkaline
phosphatase acty. in serum, especially
wavelength accuracy (SN), 938
fully automated kinetic assay for plasma NH₃
(A), 996

(A), 996

(A), 996 high-density lipoproteins estimated by an enzymatic cholesterol procedure, with a centrifugal analyzer (SN), 2180 integration of multiple centrifugal analyzers into automated and computerized lab (A),

1010
kinetic centrifugal analyzer and manual detn.
of serum urea N, with use of
o-phthaldialdehyde reagent (SN), 2199
kinetic measurement of α-amylase with a
centrifugal analyzer (SN), 1644
maleimide as inhibitor in measurement of
erythrocyte glucose-6-phosphate

erythrocyte glucose-6-phosphate dehydrogenase acty. 885 manual and centrifugal analyzer detn. of cholesterol and triglycerides with single-vial enzymic reagents (SN), 2026 novel kinetic method for measurement of conjugated bilirubin with centrifugal analyzer (A), 1022 optimization of a centrifugal analyzer EMIT procedure for carbamazepine with fourfold reduction of reagent cost (A), 1058 optimized measurement of aspartate aminotransferase acty, with the Centrifichem Analyzer, with automatic

CentrifiChem Analyzer, with auto preincubation of serum, 1147

practical approach to pancreatic profiling with centrifugal analyzer (A), 1047

serum galactose detn. with centrifugal analyzers, 1990 simplified EMIT methods for centrifugal spin analyzer (A), 1057 simultaneous coagulation testing: prothrombin

time detns. with centrifugal analyzer (A), studies of various solvent accelerators for

studies of various solvent accelerators for optimizing centrifugal analyzer total bilirubin method (A), 1022 two-point detn. of plasma NH₃ with the centrifugal analyzer, 782 Centrifugal ultrafiltration measurement of free and free-plus-peptide bydesympolius in plasma 2044.

hydroxyproline in plasma, 204

Cephalosporin cephalosporin antibiotic interference with anal, for theophylline by liquid chromatog. (L), 1847

(L), 1847
cephalosporin antibiotics interfere with anal.
for theophylline by high-performance liquid
chromatog. (L), 838
Cerebrospinal fluid
anal. for CSF proteins by isoelectric focusing
on polyacrylamide gel: method aspects and
normal values, with special ref. to the alk. region, 1134

automated assay of γ-aminobutyric acid in human CSF, 256 detn. of CSF glutamine with the Du Pont aca detn. of spinal fluid glutamine utilizing Dupont ACA (A), 997

fluorometric quantitation of glutamine in CSF

gas-chromatog. detn. of polyol profiles in CSF, 545

545 high-performance liquid-chromatog, assay for chloramphenicol in biol. fluids, 778 protein electrophoresis of pediatric CSF using micro samples (A), 1011

micro samples (A), 1011
source of error in CSF protein detn. with the
Du Pont aca (L), 173
standardization of CSF protein detd. with the
Du Pont aca (L), 1852
standn. of the Coomassie Blue method for
CSF proteins, 1931
Ceruloplasmin
measurements of serum contendamin to

measurements of serum ceruloplasmin to monitor tumor growth in rats (A), 1052 Cesium

Ce as int. std. in new four-element flame photometer (A), 1061 Charcoal

oral activated charcoalhypolipidemic agent (A), 1045

(A), 1045
Chemotherapy
effects of chemotherapy on clin, chem. of mice
bearing breast tumors (A), 1052
Chloramphenicol
high-performance liquid-chromatog, assay for
chloramphenicol in biol. fluids, 778
improved enzymatic assay of chloramphenicol,
1457

Chloride meas. of Cl- in sweat with the Cl-selective electrode (SM), 2050 measurement of Cl in sweat by use of a selective electrode and strip-chart recorder (SN), 381

Chloroprocaine chloroprocaine and procaine in plasma measured by flame ionization gas-liquid chromatog. 1599

Cholestasis lipoprotein X and alkaline phosphatase as indicators of cholestasis (A), 1048 Cholesterol

notesterol accurate, sensitive method for detn. of total cholesterol (A), 1020 automated enzymic measurement of total cholesterol in serum, 108 CDC cooperative cholesterol and triglyceride standardization program20 years experience (A) 1020 (A), 1020

(A), 1020 cholesterol in high-density lipoprotein: use of Mg²⁺/dextran sulfate in its enzymic measurement (SN), 931 comparison of selected cholesterol colorimetric

and enzymatic reference methods (A), 1046 continuous-flow anal. of cholesterol digitonide (L), 725

(L), 720 correlation of HDL cholesterol and glycohemoglobin concns. in diabetes mellitus (Å), 1024 development and evaln. of a method for

quantitation of plasma high-density-lipoprotein cholesterol, 1112 direct anal. for cholesterol in gallstones by use of differential scanning calorimetry transition phase, 119

transition phase, 119
enzymatic assay for detg. free and total
cholesterol in tissue, 433
enzymatic detn. of cholesterol in serum
lipoproteins separated by electrophoresis
(A), 1025

enzymic detn. of cholesterol in serum lipoproteins separated by electrophoresis,

enzymic detn. of cholesterol with SMAC (L), 1425

1423 enzymic serum cholesterol measurement with a basic AutoAnalyzer and the Du Pont aca method (SN), 1624 evaln. of an enzymatic cholesterol procedure

evaln. of an enzymatic cholesterol procedure on SMAC system (A), 1046 evaln. of performance of automated enzymatic cholesterol method on SMAC (A), 1020 external quality-control survey of cholesterol anal. performed by 12 Lipid Research Clinics, 1477 heparin-Mn+ quantitation of high-density-lipoprotein cholesterol: ultrafiltration procedure for lipemic samples, 900

samples, 900 H₂O-sol. cholesterol deriv. for use in

augmenting serum control materials, 1924 augmenting serum control materials, 1924 4-hydroxybenzoate 4-aminophenazone chromogenic system used in enzymic detn. of serum cholesterol, 2161 lab. standn. in an internat. study: the Kaunas-Rotterdam Intervention Study

(KRIS), 1126 lecithin:cholesterol acyltransferase resp dietary cholesterol loading (L), 2068 lipoprotein cholesterol in the serum of children, as detnd. independently by two different methods (SN), 157 manual and centrifugal analyzer detn. of

manual and centriugal analyzer detil. of cholesterol and triglycerides with single-vial enzymic reagents (SN), 2026 measurement of cholesterol in serum: interlab. study of factors influencing accuracy and precision (A), 1046

precision (A), 1046
method for rapid sepn. and quantitation of
high density lipoprotein cholesterol in
serum (A), 1025
multi-lab. comparison of 3 heparin–Mn²⁺
pptn. procedures for estg. cholesterol in
high-density lipoprotein, 853
new method for quantitation of α-lipoprotein
cholesterol (A), 1025
noise reduction in an AutoAnalyzer II direct
cholesterol method (L), 168
saponification of cholesterol esters in the
enzymic cholesterol method on the MSA
12/60 (L), 1421

12/60 (L), 1421 serum Cr and angiographically detnd

coronary artery disease, 541 simultaneous detn. of serum cholesterol in high- and low-density lipoproteins with use of heparin, Ca²⁺, and anion-exchange resin,

spectrodensitometry of nanogram quantities of cholesterol, 1496

test precision and high-density-lipoprotein cholesterol (L), 2061

cholesterol (L), 2061
use of 4-hydroxybenzoate 4-aminophenazone
chromogenic system in enzymatic detn. of
cholesterol (A), 1026
use of the Du Pont aca to measure cholesterol
in high-density lipoprotein fractions
prepared by the heparin/Mn2²⁺ pptn.
method (SN), 161
holinesterase

Cholinesterase
programmable calculator used in processing
and interpreting serum cholinesterase
phenotypes, 223
serum cholinesterase activity: predictor of
succinyl choline sensitivity? assessment of
four methods, 1762

two procedures compared for detn. of plasma cholinesterase acty. (L), 841 Cholylglycine

(A), 996 specific ¹²⁵[RIA for cholylglycine (A), 999

Choriogonadotropin effect of environmental differences between

effect of environmental differences between stds. and unknown serum samples in com. j-HCG assay (A), 1043 estg. choriogonadotropin in serum (L), 2207 human choriogonadotropin: results compared for two beta-subunit RIA kits and radioreceptor kit (A), 1042 modn. of choriogonadotropin beta-subunit RIA for detn. of urinary choriogonadotropin, 1958

Choriomammotropin enzyme-linked immunosorbent choriomammotropin assay (A), 1032

Chromatography acetazolamide interference with theophylline anal. by liquid chromatog. (I.), 2208 anal. for barbiturates by HPLC in biol. fluids

(A), 1006 anal. for glutathione in blood by

anal. for glutathione in blood by high-performance liquid chromatog. 1140 anal. for tamoxifen, an anti-neoplastic agent, in plasma, 1518 anal. of theophylline by gas chromatog, without derivatization (A), 990 anion-exchange chromatog, of erythrocytic and muscle adenylate kinase and its effect on serum CK isoenzyme assays, 2168 appn. of time-programmable variable wavelength detector to the HPLC anal. of antiepileptic drugs (A), 1008 assay of vitamins D₂ and D₃, and 25-hydroxyvitamins D₂ and D₃ in human plasma by liquid chromatog. 287 automated assay of y-aminobutyric acid in

automated assay of γ -aminobutyric acid in human CSF, 256

biochem. properties of tartrate-resistant acid phosphatase in serum of adults and children, 1105

biosyn. of guanidinosuccinate, 2108 buffer-exchange column for rapid sepn. of carcinoembryonic antigen from perchloric acid (SN), 135

cephalosporin antibiotic interference with anal. for theophylline by liquid chromatog. (L), 1847

(L), 1847
cephalosporin antibiotics interfere with anal.
for theophylline by high-performance liquid
chromatog. (L), 838
characterization of the principal human
prostatic acid phosphatase isoenzyme,
purified by affinity chromatog, and
isoelectric focusing. Part II, 1783

chloroprocaine and procaine in plasma measured by flame ionization gas-liquid chromatog. 1599

chromatog, behavior of 3-hydroxyquinidine (L), 1853

chromatog. sepn. and continuously referenced, chromatog, sepn. and continuously reference on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408 clin. lab. evaln. of non-hydrolytic XAD-2 column procedure for urinary 17-hydroxycorticosteroids (A), 1018 column chromatog, method for sepg.

isoenzymes of aspartate aminotransferase

column-chromatog, sepn. of isoenzymes of aspartate aminotransferase, 1805 comparison of homogeneous enzyme

imparison or nomogeneous enzyme immunoassay and gas chromatog.-mass spectrometry for anal. of drugs of abuse in urine (A), 1031 omparison of ion-exchange chromatog, with improved electrophoretic method for

improved electrophoretic method for measuring CK-MB (A), 1034 comparison of theophylline measurements by HPLC and enzyme immunoassay (A), 1057 detection of methaqualone in human urine by RIA and GLC after a therapeutic dose (L),

detn. of disaccharides in feces by liquid chromatog.: screening for carbohydrate intolerance (A), 998

detn. of doxycycline in serum by HPLC (A),

detn. of drugs in plasma by high-performance thin-layer chromatog. (S), 1386 detn. of dyphylline in serum by HPLC (A),

detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction (SN), 376

(SNI), 370 detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer chromatog, 1155 detn. of quinidine by HPLC (A), 1007 detn. of quinidine by Hiquid chromatog, 299 detn. of serum a-tocopherol (vitamin E) by

liquid chromatog. 585 detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass

and dopamine metabonites in urine by mass fragmentography, 122 drug screening by enzyme immunoassay with American Monitor KDA (A), 1031 dual-column cation-exchange chromatog. method for β-aminoisobutyric acid and

method for β-aminoisobutyric acid and β-alanine in biol, samples (S), 1373 emergency gas-chromatog, assay of phenobarbital and phenytoin, liquid-chromatog, assay of theophylline (SN), 1630

enzyme immunoassay and gas chromatog. compared for detn. of lidocaine in serum (SN), 2020

evaln. of a glassy-carbon electrode for amperometric detection of selected serum methylxanthines after separation by reversed-phase chromatog. 1711 gas chromatog. detn. of estriol in pregnancy

urine using on-column silylation (A), 1044 gas-chromatog, detn. of ng amts. of enantiomers of nortilidine, a main metabolite of tilidine, in biol. specimens,

gas-chromatog. detn. of polyol profiles in CSF,

gas-chromatog, method for plasma acetate gas-chromatog, method for plasma acetate anal, in acetate-intolerance (SN), 348 gas-liquid chromatog, detn. of bupivacaine and lidocaine in plasma, 1573 gas-liquid chromatog, detn. of nicotine and cotinine in plasma, 50 gas-liquid chromatog, microdetn, of

underivatized ethosuximide in plasma or erum (SN), 1821

serum (SN), 1021 high-performance liquid-chromatog, assay for chloramphenicol in biol, fluids, 778 high-performance liquid chromatog, assay to

measure 25-hydroxyvitamin D₂ and 25-hydroxyvitamin D₃ simultaneously in serum (SN), 927 high-performance liquid chromatog. (A), 974 improved column method for separating lactate dehydrogenase isoenzymes 1 and 2 (SN), 487

(SN), 480
improved gas-chromatog, anal, for
anticonvulsants (L), 1854
improved liquid chromatographic detn, of
placental estriol in urine, 2132
improved method for detn, of phenobarbital,
primidone and phenytoinuse of preparative
instrument for extn. followed by gas
chromatog, (A), 990
improved micro detn, of underivatized
clonazepam in serum by gas chromatog.

clonazepam in serum by gas chromatog.

1774 improved micro-scale liquid-chromatog. assay of gentamicin in plasma (L), 1846

improved thin-layer chromatog, method in diagnosis of mannosidosis, 1576 integrated approach to HPLC anal. of non-related drugs and metabolites (A), 1058 integrated approach to therapeutic drug anal. (A), 1059

nn-exchange chromatog. of erythrocytic and muscle adenylate kinase and its effect on serum creatine kinase isoenzyme assays (A),

308 isolation of γ-glutamyltransferase from human liver, comparison with that from kidney, 905 liq. chromatog. detn. of theophylline in blood serum by selective amperometric detection (A), 1007 liq. chromatog. (HPLC) proced. for detn. of

urinary 3-methoxy-4-hydroxymandelic acid (VMA) using post column reaction system

(VMA) using post column reaction system (A), 1051 liquid-chromatog, assay of aminoglycoside antibiotics in serum, 1940 liquid-chromatog, assay of cefuroxime in serum (SN), 365 liquid-chromatog, detn. of serotonin in serum and plasma, 1509 liquid-chromatog, detn. of theophylline in plasma (SN), 357 liquid-chromatog, detn. of theophylline in plasma (SN), 357

liquid chromatog. of quinidine in plasma, with use of microparticulate silica column (SN),

2166
liquid-chromatog. proced. for tricyclic drugs
and their metabolites in plasma, 87
liquid-chromatography of free nicotinic acid
and its metabolite, nicotinuric acid, in
plasma and urine, 1740
liquid-chromatog, sepn. and fluorometry of
biogenic amines in plasma, urine, and tissue
(S), 1317

liquid-chromatog. simultaneous detn. of commonly used tricyclic antidepressants, 1948

easurement of plasma nortriptyline concu RIA and gas-chromatog. compared (SN),

2023
method for screening urinary steroids by gas chromatog. 193
method for specific and direct detn. of bilirubin and its mono- and diglucuronides by HPLC (A), 1023
methyldopa as an int. std. for catecholamine analysis by use of liquid chromatog. (L), 1290

1290
Microchromatographic methods for Hb A2
quantitation compared (SN), 2196 *
micro extractive alkylation procedure for gas
chromatog. meas. of theophylline in serum
and saliva using N detector (A), 1057
micromethod for detn. of creatinine in biol.
fluids by high-performance liquid chromat.

micro-scale extractive alkylation procedure for

micro-scale extractive alkylation procedure for gas-chromatog, measurement of theophylline in serum and saliva, with use of a N detector, 1458 more economical use of chromatog, plates for drug screening (L), 171 more efficient thin-layer chromatog. (L), 1288 more on gas-liquid chromatog. detn. of homovanillic and vanillylmandelic acids in urine from cases of neuroblastoma (L), 842 negative-ion mass spectrometry of amphetamine conveners, 1720

urnie front cases on neuroousstoma (L), 642 negative-ion mass spectrometry of amphetamine congeners, 1720 nonderivatized, gas-chromatog, procedure for meas, of phenobarbital, carbamazepine, primidone, and phenytoin (A), 1056 purifn, of human prostatic acid phosphatase by affinity chromatography and isoelectric focusing, 1. 466 quant. detn. of Norpace (Disopyramide) in serum by HPLC (A), 1007 quant. GC-MS of propranolol, key to improved understanding of relationship between plasma concens, and dose (A), 991 quantitation of anticonvulsant drugs in serum by gas-chromatog, on the stationary phase SP-2510 (SN), 483 quant. metabolic profiling based on gas chromatog. (R), 1663 rapid assessment of isoenzymes by high-performance liquid chromatog. (S), 1351

rapid batch chromatog. procedure for quantitation of creatine kinase MB (A), 988 rapid detn. of light halogenated hydrocarbons in urine, 1109

rapid micro method for quantitation of ba

rapid uniter method for quantitation of oasic drugs in tissue by gas chromatog. (A), 1036 rapid, micromethod for the detn. of acetaminophen in serum by HPLC (A), 1007 rapid quantitation of biogenic amines and metabolites by combination HPLC and ion-exchange chromatog. (A), 1051 rapid specific micromethod for detn. of

creatine in biol. fluids by high-performance liq. chromatog. (A), 1051

RIA of alpha-fetoprotein, with special ref. to iodination and purifn. techniques, 275 screening for urinary oligosaccharides: quant proced. 669

sensitive gas-chromatog. detn. of fluphenazine in plasma, 41

in plasma, 41
separation of high-density lipoprotein
cholesterol by column chromatog. (A), 1024
sepn. of a number of urinary organic acids by
high performance liq. chromatog. (A), 1051
sepn. of glycine and taurine conjugated bile
acids by high pressure liq. chromatogr. (A),
1051
septum usic acid de column.

serum uric acid detnd. by reversed-phase liquid chromatog. with spectrophotometric detection, 536 simple HPLC method for simultaneous detn.

of common tricyclic antidepressant drugs in serum (A), 1006 simultaneous detection and quantitation of

drugs commonly involved in self-administered overdoses, 804 smultaneous detn. of phosphatidylglycerol and the lecithin:sphingomyelin ratio in amniotic fluid, 1144

amniotic fluid, 1144
simultaneous detn. of retinol and retinyl esters
in serum or plasma by reversed-phase liquid
chromatog. 1920
simultaneous gas-chromatog. anal. for
diazepam and its major metabolite,
desmethyldiazepam, with double internal
stdn. (SN), 1838
simultaneous HPLC anal. of most common
anticonvulsant drugs and their metabolites
(A). 1006

(A), 1006 simultaneous liquid-chromatog, detn. of 12 common sedatives and hypnotics in serum,

simultaneous quant. assay of valproate sodium trimethadione, & ethosuximide by GLC (A),

991
spectrodensitometry of nanogram quantities of cholesterol, 1496
therapeutic drug monitoring with HPLC and new extractor/concentrator (A), 1008
thin-layer chromatog, of phenolic acids with use of toluene instead of benzene (L), 836
time-concn, studies by liquid chromatography of metabolites removed during hemodialysis, 838

urinary catecholamine measurements in trauma-septic patients using high pressure liq. chromatog, with electrochem, detection (A), 1041 urinary free methyldopa detnd, by

reversed-phase high-performance liquid chromatog. 23 urinary polyamine excretion during the menstrual cycle, 769

menstruar control mens (A), 1029
at. absorption anal. for Cr in serum and urine with modified Perkin-Elmer 603 at. absorption spectrophotometer, 2151
detn. of Cr and Co in serum by neutron activn. anal. 303 hair Cr levels in relation to age and number of

pregnancies (A), 1029 serum Cr and angiographically detnd. coronary artery disease, 541

Circadian rhythm

adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 Citric acid cycle

detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

Citrulline immobilized-enzyme nylon-tube reactors for routine detn. of urea and citrulline in serum, 234

Clearance albumin activation of urinary amylase as detnd. with the Du Pont aca (SN), 702 Clinical chemistry

biochem. service: professional function of the clin. chemist in the hospital (E), 5 clinical chemistry in India, 739 Clinical Chemistry, journal progress, 735 Clinical Chemist, The 185, 399, 527, 735, 846, 1091, 1294, 1433, 1658, 1863, 2077, 2223 Clomipramine

Clomipramine detn. of a tricyclic antidepressant, clomipramine (Anafranil), in plasma by a specific RIA procedure, 36

Clonazepam improved micro detn. of underivatized clonazepam in serum by gas chromatog.

Clotting abnormalities

chromogenic substrate methods for meas. of antithrombin-III compared with radial immunodiffusion and clotting methods (A),

1053 increased platelet aggregation and altered serum lipid in women on oral contraceptives (A), 1053 RIA of platelet factor 4 and β-thromboglobulin (A), 1053 obalt

detn. of Cr and Co in serum by neutron activn.

anal 303 Colitis ulcerosa

evaln. of Fecatest, a new guaiac test for occult blood in feces, 756 Collagen disease

isoenzyme distribn. of CK and LDH in serum and skeletal muscle in Duchenne muscular dystrophy, collagen disease, and other muscular disorders, 1985

Colorimetry direct micromethod for colorimetry of serum ornithine carbamoyltransferase acty., with use of a linear std. curve, 101 measurement of free and free-plus-peptide hydroxyproline in plasma, 204 Competitive protein binding

See also Radioassay automated measurement of serum thyroxine with the "ARIA II," compared with competitive protein binding and RIA (SN),

Competitive protein-binding assay negligible effects of nonesterified fatty acids on serum thyroxine anal. by competitive protein-binding radioassay on Sephadex and by RIA, 751

Complement simplified fluorescence immunoassay for C4 quantitation in human serum (A), 1033 value of complement assays in clin. chem. (R),

omputers
anal, for K in human erythrocytes by use of a
standard-additions method and an
ion-selective electrode, 635
archival storage of clin. lab. data, 436
automated metabolic profiling of org. acids in
urine. I. description of methods, 1674
blood glucose monitoring and computer
regulation with artificial endocrine pancreas
(A), 994
computer-controlled instrument system for

computer-controlled instrument system for

sequential chem. testing III. Application to liver assessment, 555 evaln. of new empirical equation for RIA data reduction (A), 1016

experience with computer aided assay for estradiol receptor in breast cancer (A), 1041 how best to use computerization of laboratory

tests? (L), 1422 integration of multiple centrifugal analyze into automated and computerized lab (A), 1010

programmable calculator used in processing and interpreting serum cholinesterase phenotypes, 223 quant. metabolic profiling based on gas chromatug. (R), 1663

Continuous-flow analysis See also AutoAnalyzer alternative mechanized method for anal. for inorg. phosphate without reduction (SN), 1836
anal. performance and convergability of details.

anal. performance and comparability of detn. of triglycerides by 12 Lipid Research Clinic laboratories, 330 application of Technicon's SMAC to the

application of Technicon's SMAC to the analysis of amniotic fluid (L), 1086 aqueous primary standard for use with the Technicon SMA 6/60 (SN), 1204 automated enzymic fluorometric assays for blood glucose, lactate, pyruvate, alanine, glycerol, and 3-hydroxybutyrate, 1724 automated kinetic continuous-flow detn. of

creatinine, 2115
computer-controlled SMA-12, evaln. and 18
months of experience with Vickers SP-120

continuous-flow anal. for serum albumin by

continuous-flow anal, for serum albumin by the immediate reaction with bromcresol green (SN), 2036 continuous-flow anal, for simultaneous detn. of creatinine and uric acid in serum, without a dialyzer, 1578 continuous-flow anal, of cholesterol digitonide (L), 725

(L), 725 continuous-flow detn. of bile acids in serum, and clin. application, 1150 continuous-flow enzymic method evald. for meas. of serum triglycerides, with improved lipase reagent (SN), 2018

continuous plasma sampling for in vivo anal. (A), 996

detn. of total bilirubin using STAC analyzer

deth. of total bilifubilities and state analyzer system (A), 1060 deth. of uric acid on continuous-flow (AutoAnalyzer II and SMA) systems with a uricase/phenol/4-aminophenazone color test,

effect of membrane potential on dialysis of Ca in continuous-flow system, 2103 nzymic detn. of cholesterol with SMAC (L),

evaln. of an aqueous fluorometric continuous-flow method for total urinary estrogens, 631

evaln. of an enzymatic cholesterol procedure on SMAC system (A), 1046 evaln. of co-immobilized

evain. of co-immobilized hexokinase/glucose-6-phosphate dehydrogenase method for glucose, as adapted to the Technicon SMAC, 1186 evaln. of performance of Technicon SMA 12/60 and Vickers SP120 system (A), 1061 external quality-control survey of cholesterol anal. performed by 12 Lipid Research

anal. performed by 1.2 Lipiu nessearch Clinics, 1477 IL. 7-channel system as an alternative to sequential multichannel analyzers (A), 1061 immobilized-enzyme nylon-tube reactors for routine detn. of urea and citrulline in serum,

routine deth. of urea and citruline in serum, 234 immobilized uricase for continuous-flow assay of uric acid in serum (A), 1023 improved continuous-flow (SMAC) deth. of serum albumin (SN), 1191 interference by tubing material in continuous-flow systems (SN), 2170 modified continuous-flow deth. of α-amylase activity in serum and urine with the Phadebas amylase test (LL, 515 new albumin methods for the Technicon SMAC and STAC instruments, based on bromcresol-green dye binding (A), 1004 noise reduction in an AutoAnalyzer II direct cholesterol method (L), 168 peak monitor of the Technicon SMAC System (SN), 146

(SN), 146

(SN), 146
saponification of cholesterol esters in the
enzymic cholesterol method on the MSA
12/60 (L), 1421
STAC: initial evaluation (A), 1060
the "Southmead System," a simple,
fully-automated, continuous-flow system for
immunoassays [appendix: application to
serum thyroxine RIA], 571
uric acid in patients' sera as measured with
SMAC (othosohotunsstate) and AutoAnalyzer

SMAC (phosphotungstate) and AutoAnalyzer (uricase) (L), 173

Copper plasma Ca, Cu, Mg, and Zn concns. in patients with alcohol withdrawal syndrome, 1553

Coproporphyrin Cu coproporphyrin excretion in familial coproporphyria, 2009

coproporphytia, 2009 Corrections 506, 834, 1206, 1845, 2202 erroneous temp. corrections for blood pH and gas measurements (L), 1850 Ohio Valley Section, charter member, 186 Continuityanin

Corticotropin orticotropin
evaln. of two commercial kits for measurement
of ACTH (A), 1042
N-ethylmaleimide prevents destruction of
corticotropin in plasma (SN), 826

Cortisol

ortisol
adrenal status assessed by direct RIA of
cortisol in whole or parotid saliva, 1460
amniotic fluid total estriol, DHEA,
I6a-OH-DHEA, cortisol and L/S ratio in
late pregnancy (A), 1043
clin. lab. evaln. of serum digoxin and cortisol
by RIA procedures on the CONCEPT-4 (A),
1040

competitive protein-binding radioassay of

urinary cortisol (A), 994 direct solid-phase ¹²⁵I RIA of serum cortisol, 1595

improved cortisol metabolite isolation from urine of neonates, 1158 micro technique for cortisol in unextracted serum (A), 1040

one-tube micromethod for RIA of plasma cortisol, 1954 simple RIA of cortisol in plasma, 1468

gas-liquid chromatog, detn. of nicotine and cotinine in plasma, 50 Counterimmunoelectrophoresis

counterimmunoelectrophoresis in detn. of prostatic acid phosphatase in serum (SN), 140

Creatine kinase accuracy of immunolog. methods for measurement of creatine kinase isoenzyme activities (L), 179

adenylate kinase inhibition by adenosine
5'-monophosphate and F- in detn. of
creatine kinase acty. (SN), 498
albumin-bound fluorescence: potential source
of error in fluor. assay of creatine kinase BB
isoenzyme (L), 1849
AMP increases lag period for Oliver-Rosalki
assay for creatine kinase (A), 1034
anion-exchange chromatog. of erythrocytic
and muscle adenylate kinase and its effect
on serum CK isoenzyme assays, 2168
antiserum against human B monomer of
creatine kinase (A), 1034
chromatog. sepn. and continuously referenced,
on-line monitoring of creatine kinase
isoenzymes with an immobilized-enzyme
microreactor (S), 1408
comparison of ion-exchange chromatog, with
improved electrophoretic method for
measuring CK-MB (A), 1034
creatine kinase acty. in bone marrow aspirates
(A), 1047
creatine kinase BB isoenzyme activity in
bone-marrow serum (L), 1423

creatine kinase BB isoenzyme activity in bone-marrow serum (L), 1423 creatine kinase in serum: 4. differences in

substrate affinity among the isoenzymes 245

creatine kinase in serum: 5. effect of thiols on isoenzyme acty. during storage at various temps. 1557 creatine kinase isoenzyme BB increases in serum after cardiac surgery (L), 1853 creatine kinase isoenzyme BB in the serum of renal-disease patients, distinct from an albumin-like artifact (L), 1286 creatine kinase isoenzyme MB increased in patients without myocardial infarct (SN), 1818 creatine kinase isoenzyme of high relative moderne in the service of the service

creatine kinase isoenzyme of high relative mol. mass in serum of a cancer patient (CR),

reatine kinase isoenzymes in serum of patients with cancer of various organs (L), 1654 creatine kina

creatine kinase isoenzyme variants in human serum (SN), 832

creatine kinase isoenzyme variants in numan serum (SN), 832 developing creatine kinase isoenzyme bands with substrate in gelatin matrix (SN), 698 effect of diluent temp. on creatine kinase values found for lyophilized controls and ref. sera (SN), 2039 effect of EDTA and reduced thiols on CK isoenzymes in samples (A), 1004 effect of light on acty. of creatine kinase in commercial controls (A), 1035 effects of EGTA and EDTA on clin. detns. of creatine kinase (A), 988 evaln. of the BMC column-chromatog, method for creatine kinase isoenzyme MB (L), 519 evaluation of a new creatine kinase reagent for use with the Abbott ABA-100 (L), 1858 fluorescent compound(s) in serum of patients with chronic renal failure (L), 1084 formation of inhibitory oxidized NAC in creatine kinase reagentsprotective effect of EDTA (A), 988

creatine kinase reagents/protective effect of EDTA (A), 988 fully automated column procedure for assay of CK-MB in human serum (A), 1035 further observations on atypical isoenzymes of CPK (A), 1034

CPK (A), 1034
inhibition of creatine kinase activity by Ca²⁺
and reversing effect of EDTA (L), 177
ion-exchange chromatog, of erythrocytic and
muscle adenylate kinase and its effect on
serum creatine kinase isoenzyme assays (A),

988
isoenzyme distribn. of CK and LDH in serum
and skeletal muscle in Duchenne muscular
dystrophy, collagen disease, and other
muscular disorders, 1985
natural fluorescence in serum of patients with

natural fluorescence in serum of patients with chronic renal failure not from creatine kinase-BB isoenzyme (SN), 492 presence of serum CK MB in acromegalic myopathy (A), 1047 purifin, and stability of creatine kinase from skeletal muscle (CK₃) and brain (CK₁) (A),

rapid assessment of isoenzymes by high-performance liquid chromatog. (S),

13:91 rapid batch chromatog, procedure for quantitation of creatine kinase MB (A), 988 RIA of creatine kinase isoenzymes in human serum: isoenzyme MM, 414

serum: isoenzyme MM, 414
RIA of creatine kinase isoenzymes in human
serum: isoenzyme BB, 422
separation of CPK isoenzymes by
DEAE-Sepharose (A), 1035
septicemia detected by the "shot-gun" method
for assaying CK isoenzyme MB in serum
(L), 2064

situations leading to increased creatine kinase isoenzyme BB acty. in serum (L), 729

specificity of CK MB isoenzyme for

myocardial injury (L), 2206 spurious brain creatine kinase in serum from patients with renal disease (SN), 1636 stable, unusual isoenzyme of creatine kinase observed in case of acute anoxia (A), 1047

two electrophoretic and two column-chromatographic kits compared for detng. serum CK isoenzyme MB acty. (SN),

Creatine phosphate

effects of endotoxin and anaphylactic shock on plasma adenosine triphosphate, adenosine diphosphate and creatine phosphate (A),

Creatinine

automated kinetic continuous-flow detn. of creatinine, 2115 bilirubin interference with the kinetic Jaffe

method for serum creatinine (L), 392 continuous-flow anal. for simultaneous detn.

continuous-flow and, for simultaneous deth.
of creatinine and uric acid in serum, without
a dialyzer, 1578
effect of bilirubin on direct kinetic deth. of *
serum creatinine (A), 1022
eval... of Beckman Creatine Analyzer 2 (A),

1062 evaln. of Beckman Creatinine Analyzer 2 on serum and amniotic fluid (A), 1062 evaln. of Beckman Creatinine Analyzer 2 (A),

1063 kinetic creatinine method utilizing optimized

reagent suitable for manual, semi-automatic or automatic operation (A), 1017 kinetic procedure for serum and urine

creatinine detn. on Clinicard 368 Analyzer (A), 1017

micromethod for detn. of creatinine in biol.
fluids by high-performance liquid chromat.

reatinine (kinetic Jaffe method) (L), 1851 problems in estimating glomerular filtration rate in patients with decreased creatine

rate in patients with decreased creatine excretion (A), 995 rapid specific micromethod for detn. of creatine in biol. fluids by high-performance liq. chromatog. (A), 1051 six alk. picrate methods for serum creatinine

six air. Dicrate methods for serum creatinine compared with a highly specific enzymatic assay (A), 997 soln. to the problem of bilirubin interference with the kinetic Jaffe method for serum creatinine (SN), 1196

Creatinine clearance
method for predicting creatinine clearance
in children, 1167
Cross reactivity

RIA of methaqualone in human urine compared with chromatog. 1473

Cvanide analytical precautions in measurement of blood CN (SN), 2184 Cystic fibrosis cystic fibrosis (A), 968

cystic infosis (A), 906 screening for urinary oligosaccharides in a mentally handicapped population and patients with other diseases (SN), 714 serum lipids in cystic fibrosis and absence of heterozygote advantage (A), 1044

Cytochemistry
quant. cytochem: the basis of sensitive
bioassays for comparison of bio- and
immuno-reactive hormone values (S), 1399

Cytology anal. cytology in cancer detection (A), 969

anal. cytology in cancer detection (A), 900
Data processing
anal. for K in human erythrocytes by use of a
standard-additions method and an
ion-selective electrode, 635
archival storage of clin. lab. data, 436
characteristics of statistical parameters used
to interpret least-squares results, 611
determining the probability of result
abnormality, 640
economical microprocessor-based data logger

abnormality, 640
economical microprocessor-based data logger
for gamma counters (A), 1010
evaln. of new empirical equation for RIA data
reduction (A), 1016
personal biochem. profiles: graphical
representation and statistical anal. (A), 995
Depression
biochemistry of depression (A), 986
Derivatization

biochemistry of depression (A), 986
Derivatization
"negative interference" associated with
liquid-liquid extraction-derivatization
techniques (L), 1081
Di-(2-ethylhexyl) phthalate
RIA for mono-(2-ethylhexyl) phthalate in
unextracted plasma, 429

Diabetes correlation of HDL cholesterol and glycohemoglobin concns. in diabetes mellitus (A), 1024

D

D

D

D

D

n

D

D

D

2.

D

development and evaln. of a glucose analyzer for a glucose-controlled insulin infusion system (Biostator) (S), 1366 glycosylated Hb and metabolic control of diabetes mellitus (A), 994 kinetics of the Beckman enzymic method for serum and urinary amylase, 762 method for estimating glycosylated hemoglobins; its application to evaln. of diabetic patients, 1708 simultaneous detn. of sialic acid and protein in erythrocyte membrane from diabetic patients (L), 1287 jagnostic aids

patients (L), 1287

Diagnostic aids

assessing serum triiodothyronine concns.,
independent of subject's age and concns. of
binding proteins in serum, 1792

bile acids measured in serum during fasting as
a test for liver disease, 1095
chromatog, sepn. and continuously referenced,
on-line monitoring of creatine kinase
isoenzymes with an immobilized-enzyme
microreactor (S), 1408
clin. utility of cholylglycine in alc. liver disease
(A), 996
counterimmunoelectrophoresis in deta. of

counterimmunoelectrophoresis in detn. of prostatic acid phosphatase in serum (SN), 140 criteria used in diagnosis of type III

hyperlipoproteinemia: application and comparison, 1445 detection of renal isoenzyme of alkaline phosphatase in dialysis patients and its possible appn. to diagnosis of renal failure

(A), 1012 (A), 1012

detn. of spinal fluid glutamine utilizing
Dupont ACA (A), 997

direct micromethod for colorimetry of serum
ornithine carbamoyltransferase acty., with
use of a linear std. curve, 101
enzyme immunoassay for human
apolipoprotein B, the major protein moiety
in low-density and very-low density
lipoproteins, 455
erythroxite supervide diamutase and

lipoproteins, 455
erythrocyte superoxide dismutase and
Duchenne muscular dystrophy (A), 1048
estn. of free triiodothyronine in serum: new
method and its clin. relevance, 1891
excretion of X-prolyl
dipeptidyl-aminopeptidase in urine as detnd
with a new fluorogenic substrate, 1163
free thyroxine in serum as estd. by
polyacrylamide gel filtration, 652
hyperlipoproteinemia phenotype detri. by
agarose gel electrophoresis updated, 227
isoenzyme measurements in management of isoenzyme measurements in management of cardiac surgical patients (A), 982 is pterin-6-aldehyde diagnostic for cancer?

is pterm-o-ainchyde diagnostic for cancer? (A), 1002 lipoprotein X and alkaline phosphatase as indicators of cholestasis (A), 1048 method for screening urinary steroids by gas

chromatog. 193
β₂-microglobulin in urine as index of chronic Cd exposure (A), 1012
modified erythrocyte uroporphyrinogen I synthase assay, and its clin. interpretation, 1751

1751
normalized androgen ratio: index of serum free 17β-hydroxysteroid conen. 1500 practical RIA for thyroglobulin, 267 predictive value studies of various diagnostic criteria used in diagnosis of myocardial infarct (A), 1046 prelim. evaln. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or henirun peoplasms, 868

serum or urine (or both) of patients with cancer or benign neoplasms, 868 presence of serum CK MB in acromegalic myopathy (A), 1047 presence of sialyltransferase in human breast and colon cancer (A), 1003 programmable calculator used in processing and interpreting serum cholinesterase phenotypes, 223 selective purifin. (of terrate-inhibitable acid phosphatases: purifin. (to homogeneity) of

selective purin. of tartrate-inhibitable acid phosphatases: purin. (to homogeneity) of human and canine prostatic acid phosphatases, 1525 serum ionized Ca and corrected total Ca in borderline hyperparathyroidism, 1962 serum myoglobin by RIA and early diagnosis of acute myocardial infarction (A), 998 serum myoglobin, CPK-MB and scan as indicators of myocardial infarction (A), 1046 simple assay technique for renal elegrance of

indicators of myocardial infarction (A), 1046 simple assay technique for renal clearance of amylase-creatinine ratio with the Du Pont 'aca' (A), 1036 solid phase RIA for β_2 microglobulin: sensitive index for renal allograft evaln. (A), 995 total LDH activity and isoenzyme distribution as predictors of cancer in cavity fluids. correlation with cytolog. and histolog. findings (A), 1048 tumor markers in CSF for differential diagnosis of CNS metastasis (A), 1002

value of complement assays in clin. chem. (R),

Dialysis patients

detection of renal isoenzyme of alkaline phosphatase in dialysis patients and its possible appn. to diagnosis of renal failure (A), 1012

heavy-metal content of Al(OH)₃ given to dialysis patients (A), 1012

Diaphorase

improved colorimetric assay for detg. diaphorase activity (A), 1037

Diazepam
simultaneous gas-chromatog. anal. for
diazepam and its major metabolite,
desmethyldiazepam, with double internal
stdn. (SN), 1838

cross reactivity of digitoxin and spironolactone in two RIAs for serum digoxin (SN), 706 Digoxin

clin. lab. evaln. of serum digoxin and cortisol by RIA procedures on the CONCEPT-4 (A), 1040 cross reactivity of dihydrodigoxin with a commercial digoxin kit (L), 1086

emergency procedure for digoxin radioassay, 1564

1564
enzymatic immunoassay of serum digoxin with
GEMSAEC centrifugal analyzer (A), 1055
homogeneous enzyme immunoassay for
digoxin on ABA-100 and CentrifiChem 400
(A), 1055

(A), 1055 improved procedure for meas. of erythrocyte Na+, K+,ATPase inhibition in patients on digoxin therapy: correlation with srum digoxin (A), 1055 microencapsulation of antibody for use in RIA for thyroxine and digoxin (A), 1040 report on cooperative digoxin experiment (A), 1050

1000 spurious underestn. of results for digoxin RIA with a commercial kit (SN), 494 trace binding in digoxin RIA by use of 1251-labeled 3-0-succinyl-digoxigenin: relation of thyroxine concn. to binding (L), 1854

variability among commercially available digoxin RIA kits in cross reactivity to dihydrodigoxin (SN), 155

dihydrodigoxin (SN), 155

Dihydrodigoxin

cross reactivity of dihydrodigoxin with a

commercial digoxin kit (L), 1086

variability among commercially available

digoxin RIA kits in cross reactivity to

dihydrodigoxin (SN), 155

Dihydrofolate reductase

use of dhydrofolate reductase from bovine liver, rather than from L. casei, for detg. methotrexate (L), 518
Dihydroxyphenylalanine

detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass

and dopamine metabolites in urine by mas fragmentography, 122
3,4-Dihydroxyphenylethylene glycol detn. of 3-methoxy-4-hydroxyphenylpyruvic acid, 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylmandelic acid in urine by mass fragmentography, with 2H-labeled intern. stds. 2001
3,4-Dihydroxyphenylmandelic acid detn. of 3-methoxy-4-hydroxyphenylpyruvic acid, 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylethylene glycol, and y-mass fragmentography, with 2H-labeled intern. stds. 2001
2,3-Dimethyl-4-ethylpyrrole absent from

hemopyrrole and kryptopyrrole absent from urine of schizophrenics and normal persons,

2,4-Dimethyl-3-ethylpyrrole
hemopyrrole and kryptopyrrole absent from
urine of schizophrenics and normal persons, Diphenylhydantoin

Diphenyinyaanton
See Phenytoin
2,3-Diphosphoglycerate
erythrocyte 2,3-diphosphoglycerate anal. by
centrifugal analyzer (A), 1054
two 2,3-diphosphoglycerate assays compared
(L), 517

Disaccharides detn. of disaccharides in feces by liquid chromatog: screening for carbohydrate intolerance (A), 998 Discrete analyzer

evaln. of homogeneous enzyme immunoassay of serum thyroxine with use of bichromatic anal. (SN), 165 evaln. of the Du Pont aca ammonia procedure (SN), 489

source of error in CSF protein detn. with the Du Pont aca (L), 173

use of the Du Pont aca to measure cholesterol in high-density lipoprotein fractions prepared by the heparin/Mn²⁺ pptn. method (SN), 161

Discriminant analysis
bile acids measured in serum during fasting as
a test for liver disease, 1095 Disopyramide

simple spectrophotometric method for disopyramide phosphate (Norpace^R measurement in biol. fluids (A), 991 Diurnal variation

diurnal variation of serum Fe in normal individuals (L), 842

DNA

new quant. fluorescence immunoassay for antibody activities against DS-DNA in human serum (A), 1033

radioenzymatic assay of DOPA (3,4-dihydroxyphenylalanine), 1927 Dopamine

detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography, 122 possible rationale for neurobehavioral effects

of catecholamine-related tetrahydroisoquinolines: regional alterations in brain serotonin and dopamine (A), 995

Doxycycline detn. of doxycycline in serum by HPLC (A),

Drug abuse

homogeneous enzyme immunoassay for cannabinoids in urine, 95 simultaneous detection and quantitation of

drugs commonly involved in self-administered overdoses, 804

Drug assay
See also drug of interest, Anticonvulsants,
Screening, Toxicology
acute pancreatitis, hyperlipemia, and normal
amylase (SN), 821

anal. for barbiturates by HPLC in biol. fluids

anal. for carbamazepine in serum by

anal. for carbamazepine in serum by electron-capture gas chromatog. 895 comparative detn. of phenytoin by spectrophotometry, GC, LC, enzyme immunoassay, and RIA (SN), 710 comparison of homogeneous enzyme immunoassay and gas chromatog.-mass spectrometry for anal. of drugs of abuse in urine (A), 1031 comprehensive screen for detn. of drugs of misuse in clin. lab. I. tricyclics (A), 1030 cross reactivity of digitoxin and spironolactone in two RIAs for serum digoxin (SN), 706 detn. of drugs in plasma by high-performance thin-layer chromatog. (S), 1386 detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction (SN), 376 detn. of quinidine by liquid chromatog. 299 detn. of quinidine by liquid chromatog. 299

(SN), 376 detn. of quinidine by liquid chromatog. 299 drug screening by enzyme immunoassay with American Monitor KDA (A), 1031 drug screening by enzyme immunoassay with the American Monitor KDA (SN), 1823 enzyment data of categorius (SN) 1645

the American Monitor KIJA (SN), 1823 emergency detn. of acetaminophen (SN), 1642 enzyme immunoassay, with use of a centrifugal analyzer, of phenytoin, phenobarbital, and theophylline (L), 391 evaln. and application of Jetube extn. system for simultaneous quantification of anticonvulsant drugs by GLC (A), 990

gas-liquid chromatog. detn. of nicotine and cotinine in plasma, 50

improved approach to sequential addition immunoassay (S), 1381 improved enzymatic assay of chloramphenicol,

integrated approach to HPLC anal. of non-related drugs and metabolites (A), 1058 integrated approach to therapeutic drug anal.

(A), 1059 liquid-chromatog. anal. for salicylate in serum, 1543

1543 liquid-chromatog. detn. of theophylline in plasma (SN), 357 liquid-chromatog. proced. for tricyclic drugs and their metabolites in plasma, 87

and their metabolites in plasma, 87
measurement of three aminoglycoside
antibiotics with a single RIA system, 1734
more economical use of chromatog, plates for
drug screening (L), 1712
nonderivatized, gas-chromatog, procedure for
meas. of phenobarbital, carbamazepine,
primidone, and phenytoin (A), 1056
non-equilibrium enzyme immunoassay of
gentamicin, 1770
pitfalls of the alcohol dehydrogenase proced.
for emergency assay of alcohol: a case study
of isopropanol overdose (CR), 383

rapid micro method for quantitation of basic drugs in tissue by gas chromatog. (A), 1030 sensitive gas-chromatog. detn. of fluphenazine

sensitive gas-chromatog. detn. of fluphenazine in plasma, 41 simplified EMIT methods for centrifugal spin analyzer (A), 1057 simultaneous gas-chromatog. anal. for diazepam and its major metabolite, desmethyldiazepam, with double internal stdn. (SN), 1838 simultaneous liquid-chromatog. detn. of 12 common sedatives and hypnotics in serum, 657

657
spectrophotometry of theophylline-7-acetic acid and theophylline (SN), 367
therapeutic drug monitoring with HPLC and new extractor/concentrator (A), 1008
thioridazine and its metabolites in human tissues and fluids obtained postmortem

tissues and fluids obtained postmortem
(SN), 1828
Drug dependence
See Drug assay, Screening, Toxicology
Drug metabolism
cross reactivity of digitoxin and spironolactone
in two RIAs for serum digoxin (SN), 706
detn. of quinidine by liquid chromatog. 299
gas-chromatog. detn. of ng ams. of
enantiomers of nortilidine, a main
metabolite of tilidine, in biol. specimens,
692

new metabolites by thioridazine and mesoridazine (A), 1031 Drugs of abuse

Toxicology DS-DNA

new quant, fluorescence imm

new quant. Huorescence immunoassay for antibody activities against DS-DNA in human serum (A), 1033 Duchenne muscular dystrophy isoenzyme distribn. of CK and LDH in serum and skeletal muscle in Duchenne muscular dystrophy, collagen disease, and other muscular disorders, 1985

Dyphylline etn. of dyphylline in serum by HPLC (A),

Echelle spectrometer an echelle spectrometer:image dissector system evald. for simultaneous multielement detns. by atomic absorption spectroscopy,

formation of inhibitory oxidized NAC in creatine kinase reagentsprotective effect of EDTA (A), 988

Electrochemical techniques amperometric nonenzymatic detn. of serum glucose by means of a Ni-catalyst electrode, 448 enzymatic detn. of blood ethanol, with

amperometric measurement of rate of O₂ depletion, 621

Electrodes

Na measured in albumin solns. with ion-selective electrodes, 580 Electroimmunoassay

lectrolimmunoassay electrolimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 new automated dye-binding mathod for serum albumin detn. with bromcresol purple, 80

albumin detn. with bromcresol purple, 80
Electrolytes
Ce as int. std. in new four-element flame
photometer (A), 1061
evaln. of completely automated, totally
ion-selective, electrolyte analyzer (A), 1062
evaln. of the Space Stat 30 sodium/potassium
ion analyzer (L), 1856
ionized Ca, Na, and K simultaneously by
electrode: comparison with flame
photometry and atomic absorption (total
Ca) (A), 1062
long-term evaln. of Technicon STAT/ION
system, flameless electrolyte analyzer (A),
1061

1061
measurement of free Ca ion in capillary blood
and serum, 1545
more on blood HCO₃ measurement (L), 1082
Na measured in albumin solns. with
ion-selective electrodes, 580
variation of pK': computation of [HCO₃-]
independent of pK' and soly. coeff. (L), 1081
Electron-capture gas chromatography
anal. for carbamazepine in serum by
electron-capture gas chromatog. 895
Electron impact mass fragmentography
detn. of therapeutic concns. of amitriptyline
and nortriptyline in serum using electron and nortriptyline in serum using electron impact mass fragmentography (A), 992

Electrophoresis artifactual alk. phosphatase isoenzyme band, caused by bilirubin, on cellulose acetate electropherograms (L), 178 biochem. properties of tartrate-resistant acid

phosphatase in serum of adults and children, 1105 biosyn. of guanidinosuccinate, 2108 comparison of agarose and polyacrylamide techniques for lipoprotein electrophoresis (L), 2066

comparison of immunoelectrophoresis with high resolution serum protein electrophoresis for detection of monoclonal proteins (A), 1026

creatine kinase isoenzyme variants in human serum (SN), 832

direct measurement of thyroxin-binding globulin capacities by agarose gel electrophoresis and autoradiography (A),

economical single cellulose acetate/plastic

economical single cellulose acetate/plastic sandwich for developing and scanning CK/LDH isoenzymes (L), 2214 effect of antibody binding on the mobility of serum lysozyme (L), 514 effect of sample prepn. on protein patterns in polyacrylamide gels (A), 1014 electrophoretic patterns on agarose of human serum very-low-density lipoproteins, 1439 enzymatic detn. of cholesterol in serum lipoproteins separated by electrophoresis (A), 1025 enzymic detn. of cholesterol in serum lipoproteins separated by electrophoresis.

lipoproteins separated by electrophoresis, 1116

evaln. of agarose gel electrophoresis system by use of immunofixation techniques (A), 1064 fractionating γ-glutamyltransferase by electrophoresis on cellulose acetate (SN),

Hb electrophoresis at alkaline pH on agarose gels (SN), 936 Hb electrophoresis in very thin agar gels (A),

hyperlipoproteinemia phenotype detn. by nyperinpoproteinemia pinenotype deth. by agarose gel electrophoresis updated, 227 improved immunofixation of electrophoretograms (SN), 1639 non-barbital buffer for immunoelectrophoresis and zone electrophoresis in agarose gels (SN), 1825

(SN), 1825

performance of protein, LDH, and alkaline

performance of protein, LDH, and alkaline phosphatase electrophoresis as part of hospital admission screen (A), 1027 protein electrophoresis of pediatric CSF using micro samples (A), 1011 selective staining of α_1 -antitrypsin (α_1 -protease inhibitor) with Schiff's reagent after sepn. from serum by anal. isoelectrofocusing in polyacrylamide gel (SN), 153

(SN), 153
serum glycoprotein electrophoresis in patients
with metastatic cancer (A), 1003
tartrate-resistant (band 5) acid phosphatase
acty, measured by electrophoresis on
acrylamide gel, 309
Emergency methods
emergency detn. of acetaminophen (SN), 1642
Emergency procedures
automated enzymic fluorometric assays for
blood glucose, lactate, pyruvate, alanine,
glycerol, and 3-hydroxybutyrate, 1724
emergency procedure for digoxin radioassay,
1564

EMIT

See Enzyme immunoassay

Encephalopathy
bilirubin-protein interactions monitored by

difference spectroscopy, 1491

Endocrine abnormalities
normalized androgen ratio: index of serum free
17th-hydroxysteroid conen. 1500

Endocrine disorders

method for screening urinary steroids by gas chromatog. 193

Endotoxin

effects of endotoxin and anaphylactic shock on plasma adenosine triphosphate, adenosine diphosphate and creatine phosphate (A),

Enteric disorders

Enteric disorders continuous-flow detn. of bile acids in serum, and clin. application, 1150

Environmental hazards anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 182 detn. of Cd in urine by graphite-furnace atomic absorption spectroscopy, 681 environmental carcinogenesis (A), 971 rapid detn. of light halogenated hydrocarbons in urin. 1109

in urine, 1109

RIA for mono-(2-ethylhexyl) phthalate in unextracted plasma, 429

serum anal. for polybrominated biphenyls and polychlorinated biphenyls (A), 1030

Enzymatic methods automated enzymic measurement of total cholesterol in serum, 108

automated proced. for kinetic measurement of total triglycerides (as glycerol) in serum with the Gilford System 3500, 27 bile acids measured in serum during fasting as

bile acids measured in serum during fasting as a test for liver disease, 1095 cholesterol in high-density lipoprotein: use of Mg²⁺/dextran sulfate in its enzymic measurement (SN), 931 comparison of selected cholesterol colorimetric and enzymatic reference methods (A), 1046 continuous-flow enzymic method evald, for meas, of serum triglycerides, with improved lipase reagent (SN), 2018 detn. of uric acid on continuous-flow

detn. of uric acid on continuous-flow (AutoAnalyzer II and SMA) systems with a uricase/phenol/4-aminophenazone color test,

development and use of internal assays and adequacy tests for enzyme reagents (A),

1048
double- and single-isotope enzymatic
derivative methods compared for measuring
catecholamines in human plasma, 567
enzymatic assay for detg. free and total
cholesterol in tissue, 433

enzymatic assay for serum uric acid at 500 nm,

emermanic detn. of blood ethanol, with amperometric measurement of rate of O₂ depletion, 621 enzymatic detn. of cholesterol in serum lipoproteins separated by electrophoresis (A), 1025

enzymatic detn. of phenylalanine and tyrosine (A), 1017

tA), 1917 enzymatic detn. of triglycerides in human and baboon serum (SN), 354 enzymatic inhibition assay for methotrexate on discrete automated anal., ABA-100 (A), 1032

1032
enzymatic method for detn. of amniotic fluid lecithin (A), 1044
enzymatic triglyceride method suitable for long-term population studies, 326
enzyme-coupled measurement of ethanol in whole blood and plasma with a centrifugal analyzer, 873
enzymic detn. of cholesterol in serum

lipoproteins separated by electrophoresis.

inpoproteins separated by electrophoresis, 1116
enzymic micro-assay for blood glutamine, 1730
evaln. of an enzymatic cholesterol procedure
on SMAC system (A), 1046
evaln. of commercially. available
phenylalanine ammonia lyase for the
enzymatic detn. of phenylalanine and
tyrosine (A), 1016
evaln. of performance of automated enzymatic
cholesterol method on SMAC (A), 1020
glycerol interference with serum triglyceride
measurement (A), 1045
high-density lipoproteins estimated by an
enzymatic cholesterol procedure, with a
centrifugal analyzer (SN), 2180
4-hydroxybenzoate 4-aminophenazone
chromogenic system used in enzymic detn.
of serum cholesterol, 2161
immobilized-enzyme membrane sandwich
reactor used in automated micro-assay of

reactor used in automated micro-assay of plasma uric acid (SN), 2033 immobilized-enzyme nylon-tube reactors for

routine detn. of urea and citrulline in serum, 234

immobilized-enzyme nylon-tube reactor for routine detn. of serum uric acid, 1813 improved enzymatic assay of chloramphenicol,

kinetics of the Beckman enzymic method for serum and urinary amylase, 762 microenzymatic method for detn. of NH₃ in

microenzymatic method for detn. of NH₃ in plasma (A), 996 micro method for detn. of superoxide dismutase in serum and tissue: contents of rat myocardium (A), 1002 modified micro-scale enzymic method for plasma NH₃ in newborns, pediatric patients; comparison with modified cation-exchange procedure (SN), 2172 new enzymic method for detn. of uric acid in serum (A), 1023 new method for detn. of α-amylase (A), 1000 plasma glucose measured with the Yellow Springs Glucose Analyzer (SN), 150 single enzymatic reagent for serum triglyceride detn. on clin. chem. analyzers (A), 1019 six alk. picrate methods for serum creatinine compared with a highly specific enzymatic assay (A), 997

assay (A), 997
substrate studies in uv method for quantitation of amylase activity (A), 1000 totally enzymatic method for assay of phospholipids (A), 1019

use of 4-hydroxybenzoate 4-aminophenazone chromogenic system in enzymatic detn. of cholesterol (A), 1026

uv assay of uric acid in serum or plasma, 562 Enzymatic radioassay enzymatic radioassay for gentamicin (SN), 2145

Enzyme activity
See also Kinetic enzyme activity, and specific

See also Kinetic enzyme activity, and specific enzyme of interest alcoholic myopathy and changes in serum enzyme acty. (L), 1653 an evalin. of Beckman Liq. Enzyme Reagents on Beckman System TR and Gilford System 3500 (A), 1037 biochem. characterization of an aryl acetic acter bythydaes from human moneytes. ester hydrolase from human monocytes, 1177

biochem. properties of tartrate-resistant acid phosphatase in serum of adults and children, 1105

children, 1105
CentrifiChem methodology applied to selected renal enzymes in rat urines (A), 1052
creatine kinase in serum: 4. differences in substrate affinity among the isoenzymes, 245

detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

Introolasts, 200
enhanced inhibn. of protein synthesis and enzyme activity by aged anti-neoplastic platinum complexes, cis- and trans-dichlorodiammine platinum (A), 1004 interlab. study of measurement of aspartate aminotransferase acty. with use of purified

enzyme, 916

enzyme, 916 isoenzyme measurements in management of cardiac surgical patients (A), 982 isolation of \(\gamma_{\text{ell}}\) guttamyltransferase from human liver, comparison with that from kidney, 905 marked hyperamylasemia associated with carcinoma of the lung (CR), 1207 neonatal ref. values of selected enzyme activities measured in plasma (A), 1010 optimal conditions for and comparison of LDH catal of the lexitate to review the second conditions for and comparison of LDH catal of the lexitate to review the second conditions of the catalogue o

se

si

isc Epil Se

Epir 24

Erra Eryt Ervi

Eryt eff

Estr

RI ser

Estr

an

de

gas

im

125

pla

Estro cor

Estre

ext

Enz

optimal condutions for and comparison of LDH catal. of the lactate-to-pyruvate and pyruvate-to-lactate reactions in serum at 25, 30, and 37°C (SN), 828 optimal reaction conditions for assaying human LDH, pyruvate-to-lactate, at 25, 30, 37°C, 261 optimization of methods for aspartate

aminotransferase and alanine aminotransferase, 58 optimized measurement of aspartate

optimized measurement of aspartate aminotransferase acty, with the CentrifiChem Analyzer, with automatic preincubation of serum, 1147 preservation of acid phosphatase, acty, in medico-legal specimens (SN), 486 serum enzymes in cancer patients (L), 727 serum enzymes in diagnosis of hepatic metastatic carcinoma (L), 839 studies on in-vitro effects of tumor cell radiosensitizing drug on serum enzyme.

radiosensitizing drug on serum enzyme activities (A), 1036 urinary enzymes and renal transplantation: the early warning controversy (L), 724

Enzyme immunoassay adaptation of EMIT antiepileptic drug assays to centrifugal analyzers (A), 1056 assessment of thyroxine by enzyme immunoassay with the ABA-100 analyzer (L), 387

immunoassay with the ABA-100 analyzer (L), 387
automated enzyme immunoassay of theophylline in serum (SN), 944
comparison of RIA enzyme immunoassay,
HPLC and uv spectrophotometry for the detn. of serum theophylline measurements by HPLC and enzyme immunoassay (A), 1057
double-antibody enzyme immunoassay for nortriptyline, 1590
drug screening by enzyme immunoassay with the American Monitor KDA (SN), 1823
EMIT assay for gentamicin (A), 1055
enzymatic immunoassay of serum digoxin with GEMSAEC centrifugal analyzer (A), 1055
enzyme immunoassay (A), 972
enzyme immunoassay and gas chromatog.
compared for detn. of lidocaine in serum (SN), 2020
enzyme immunoassay for detn. of thyroxine

(SN), 2020
enzyme immunoassay for detn. of thyroxine binding index (A), 1033
enzyme immunoassay for gentamicin, 1903
enzyme immunoassay for human apolipoprotein B, the major protein moiety in low-density and very-low density lipoproteins, 455
enzyme immunoassay for serum ferritin; method even and comparison to R14 (A)

method evaln. and comparison to RIA (A),

enzyme immunoassay of theophylline with a centrif. analyzer, and comparison with uv method (L), 514

enzyme immunoassay of theophylline with the ABA-100 (L), 520

enzyme immunoassay of theophylline with centrifugal analyzer (A), 1057
enzyme immunoassay, with use of a centrifugal analyzer, of phenytoin, phenobarbital, and theophylline (L), 391
evaln. of EMIT procedure for theophylline: comparison with spectrophotometric and HPLC procedures (A), 1056
evaln. of homogeneous enzyme immunoassay of serum thyroxine with use of bichromatic anal. (SN), 165
homogeneous enzyme immunoassay for

homogeneous enzyme immunoassay for

cannabinoids in urine, 95 homogeneous enzyme immur methotrexate in serum (A), 1032

homogeneous enzyme immunoassay for digoxin on ABA-100 and CentrifiChem 400 (A), 1055

(A), 1055 homogeneous enzyme immunoassay for N-acetylprocainamide in serum (A), 1055 homogeneous enzyme immunoassay for propranolol in serum (A), 1056

omogeneous enzyme immunoassay for procainamide in serum (A), 1056 improved approach to sequential addition immunoassay (S), 1381

improved enzyme immunoassay for progesterone in human plasma, 2099 non-equilibrium enzyme immunoassay of

gentamicin, 1770
optimization of a centrifugal analyzer EMIT
procedure for carbamazepine with fourfold
reduction of reagent cost (A), 1058

sensitive, manual enzyme immunoassay for thyroxine (A), 1033 sensitive manual enzyme immunoassay for

thyroxine 1801 simplified EMIT methods for centrifugal spin analyzer (A), 1057

Enzyme kinetics
interlab. study of measurement of aspartate
aminotransferase acty. with use of purified enzyme, 916

isolation of γ-glutamyltransferase from human liver, comparison with that from kidney, 905 Epilepsy

See Anticonvulsant drugs

24-h fluctuations in plasma norepinephrine & epinephrine in third trimester pregnancy (A), 993

Errata See Corrections

Erythrocyte porphyrin neonatal changes in erythrocyte porphyrin concns. (A), 1010

Erythrocyte protoporphyrin anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 1182 Erythrocytes

effect of storage on apparent concn. of folate in erythrocytes, as measured by competitive protein binding radioassay, 663

experience with computer aided assay for estration receptor in breast cancer (A), 1041 RIA of serum estradiol-17 β (A), 1041 serum estradiol-17 β as detnd. by mass fragmentography and by RIA, 627

striol
amniotic fluid total estriol, DHEA,
16a-OH-DHEA, cortisol and L/S ratio in
late pregnancy (A), 1043
detn. of urinary estriol by RIA (A), 1043
evaln. of RIA method for detg. urinary estriol
during pregnancy and relation with fetal
lung maturity (A), 1041
gas chromatog, detn. of estriol in pregnancy
urine using on-column silylation (A), 1044
improved liquid chromatographic detn. of
placental estriol in urine, 2132
interference of nonconjugated estriol
metabolite in direct RIA of free serum
estriol (A), 1041
221-RIA for unconjugated estriol in serum of

¹²⁵I-RIA for unconjugated estriol in serum of pregnant women, 1100

plasma estriol vs. estrogen assays in 24-h urines: index to fetal status (SN), 1830

Estrogen receptor comparison of protamine sulfate and dextran-coated charcoal assays for estrogen receptor (A), 1004 Estrogens

evaln. of an aqueous fluorometric continuous-flow method for total urinary estrogens, 631 extn. of Kober chromogen into tetrachloroethane containing trichloroacetic

acid in detn. of urinary estrogens during pregnancy (L), 2217 is there a high-affinity estrogen binder in

human serum? (L), 1848 overnight urine in estrogen monitoring of ovulation induction therapy (A), 1043

plasma estriol vs. estrogen assays in 24-h urines: index to fetal status (SN), 1830 RIA of estrone, estradiol, and progesterone in bovine fat and muscle (A), 1052

progesterone receptor anal. (SN), 1609 Ethanol use of vertical rotor to facilitate estrogen and

enzymatic detn. of blood ethanol, with amperometric measurement of rate of O₂ depletion, 621

enzyme-coupled measurement of ethanol in whole blood and plasma with a centrifugal analyzer, 873 simultaneous assays of lactate, β-hydroxybutyrate, alanine and ethanol (A),

1005 Ethosuximide

gas-liquid chromatog, microdetn. of underivatized ethosuximide in plasma or serum (SN), 1821

simultaneous quant. assay of valproate sodium trimethadione, & ethosuximide by GLC (A), 991

Ethylene glycol use of ethylene glycol based quality control materials (A), 1050

Ethylmaleimide
N-ethylmaleimide prevents destruction of
corticotropin in plasma (SN), 826

Experimental error See Variation, source of

Extraction
"negative interference" associated with
liquid-liquid extraction-derivatization
techniques (L), 1081

Fast analyzer See Centrifugal analyzer

Fatty acids semi-automated micro-scale extn. apparatus for assay of free fatty acids in plasma (SN),

1614 Fecal occult blood evaln. of tests for fecal occult blood (L), 2209

detn. of disaccharides in feces by liquid

chromatog: screening for carbohydrate intolerance (A), 398 evaln. of Fecatest, a new guaiac test for occult blood in feces, 756

Ferritin

changes in serum ferritin and hematological parameters in normal males with constant monthly blood loss (A), 1054

clin. evaln. of serum ferritin by RIA (A), 998 enzyme immunoassav for serum ferritin; method evaln. and comparison to RIA (A),

1017
evaln. of a ferritin test kit in relation to the
high-dose parabolic phenomenon (L), 1650
ferritin RIA evaln: abnormalities in Scatchard
plots (A), 998
RIA for serum ferritin (A), 998

Fetal status

etal status amniotic fluid total estriol, DHEA, 16a-OH-DHEA, cortisol and L/S ratio in late pregnancy (A), 1043 detn. of urinary estriol by RIA (A), 1043 enzymatic method for detn. of amniotic flui-lecithin (A), 1044 evaln. of an aqueous fluorometric

continuous-flow method for total urinary estrogens, 631

estrogens, 631
evaln. of RIA method for detg. urinary estriol
during pregnancy and relation with fetal
lung maturity (A), 1041
hexosaminidase A in amniotic fluid of
Tay-Sachs fetuses, 1131

Tay-Sachs fetuses, 1131 improved liquid chromatographic detn. of placental estriol in urine, 2132 1251-RIA for unconjugated estriol in serum of pregnant women, 1100 mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899 plasma estriol vs. estrogen assays in 24-h urines: index to fetal status (SN), 1830 polystyrene tube immunoradiometric assay for

urines: index to fetal status (SN), 1830 polystyrene tube immunoradiometric assay for human a₁-fetoprotein, use for mass screening, 2158 rational basis for foam-stability assays of amniotic fluid surfactant, 1980 simultaneous detn. of phosphatidylglycerol and the lecithinsphingoroyelin ratio in amniotic fluid, 1144 three methods to evaluate stal lung maturity compared and coveriated to the clin. outcome of infant (A), 1010 etoprotein

Fetoprotein polystyrene tube i amunoradiometric assay for human α₁-fetop α tein, use for mass screening, 2158

RIA of alpha-fetoprotein, with special ref. to iodination and purifn techniques, 275

Fibrinogen faster detn. of clottable fibrinogen in human plasma: improved method and kinetic study (SN), 351

(SN), 301
Fibroblasts
detern. of pyruvate oxidn. rate and citric acid
cycle acty. in intact human leukocytes and
fibroblasts, 200
Flame spectroscopy
Lidda by flame abotometry (L), 2209

riame spectroscopy
Li detn. by flame photometry (L), 2209
Flow cytometry
flow cytometry of cells and organelles (A), 984
Fluorescence immunoassay
fluorescence quenching immunoassay for
human IgA (A), 1033
homogeneous fluorescence immunoassay (A),
973
per count fluorescence immunoassay

973
new quant. fluorescence immunoassay for antibody activities against DS-DNA in human serum (A), 1033 simplified fluorescence immunoassay for quantitation in human serum (A), 1033

Fluorescence polarization
assay of an antitumor protein,
neocarzinostatin, and its antibody by
fluorescence polarization, 2139

Fluoroimmunoassay quenching fluoroimmunoassay for aminoglycoside netilmicin (A), 1033

Fluorometry automated assay of \(\gamma\) aminobutyric acid in human CSF, 256 automated enzymic fluorometric assays for

automated enzymic fluorometric assays for blood glucose, lactate, pyruvate, alanine, glycerol, and 3-hydroxybutyrate, 1724 chromatog, sepn. and continuously referenced, on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408

microreactor (S), 1408
detn. of 5-hydroxytryptophan in plasma by
liquid chromatog, and fluorometric
detection after phthaldialdehyde reaction
(SN), 376
detn. of 8-methoxypsoralen in plasma by
scanning fluorometry after thin-layer
chromatog. 1155
evaln. of an aqueous fluorometric
continuous-flow method for total urinary
estrogens. 631

continuous-flow method for total urinary estrogens, 631 excretion of X-prolyl dipeptidyl-aminopeptidase in urine as detad with a new fluorogenic substrate, 1163 flow cytometry of cells and organelles (A), 984 fluorometric quantitation of glutamine in CSF (A), 997

(A), 997
fluorometry of propranolol and its
glucuronide: applicability, specificity, and
limitations (L), 169
formaldehyde interference with fluorescence
detn. of morphine (L), 840
liquid-chromatog. sepn. and fluorometry of
biogenic amines in plasma, urine, and tissue
(S) 1317

(S), 1317

spectrofluorometric assay of salicylate metabolites in serum and urine (A), 1059 metabolites in serum and urine (A), 1009 spurious brain creatine kinase in serum from patients with renal disease (SN), 1636 urinary polyamine excretion during the menstrual cycle, 769 Fluoro ultra micro enzyme linked immuno

assay (FUMELIA) quantit. ultramicro-scale immunoenzymic

method for measuring Ig antigenic determinants in single cells (S), 1325 Fluphenazine

sensitive gas-chromatog. detn. of fluphenazine in plasma, 41 Folate

comparison of radioassay and microbiological assay for serum folate with clin. assessment of discrepant results, 2192

or unscrepant results, 2192 effect of storage on apparent concn. of folate in erythrocytes, as measured by competitive protein binding radiossay, 663 radiossay kits compared with microbiol. assay of folate in serum and whole-blood (SN), 2186

2100 source of error in detn. of erythrocyte folate by competitive binding radioassay (L), 388 use of either serum or plasma for folate and vitamin B_{12} detns. (L), 178 Follitropin

rollitropin production of follicle stimulating hormone by human trophoblastic and non-trophoblastic tumors (A), 1003 Forensic medicine

preservation of acid phosphatase acty. in medico-legal specimens (SN), 486 Free thyroxine index

detn, of a trivariate ref. region for free

detn, of a trivariate ref. region for free thyroxine index, free triiodothyronine index, and thyrotropin from results on middle-aged women, 1744

Free triiodothyronine index detn. of a trivariate ref. region for free thyroxine index, free triiodothyronine index, and thyrotropin from results on middle-aged women, 1744

Galactics

Galactose

serum galactose detn. with centrifugal

analyzers, 1990
Galactosemia
evaln. of fluorescence screening test for galacto galactosemia (galactose-1-phosphate uridylyltransferase, Gal-PUT deficiency) (A),

detn. of Pt and Ga by flameless atomic absorption spectrophotometry (A), 1058 melting-point-of-Ga apparatus for thermometer calibration (S), 1331

Gallstones

direct anal. for cholesterol in gallstones by use of differential scanning calorimetry transition phase, 119

Gas chromatography automated metabolic profiling of org. acids in urine. I. description of methods, 1674

Gases See Blood gas

Gastrointestinal bleeding evaln. of Fecatest, a new guaiac test for occult blood in feces, 756

Gel filtration

free thyroxine in serum as estd. by polyacrylamide gel filtration, 652 Genetics

genetic screening: current perspectivesfuture horizons (A), 966

Gentamicin EMIT assay for gentamicin (A), 1055 enzymatic radioassay for gentamicin (SN),

enzyme immunoassay for gentamicin, 1903 gentamicin by RIA: evaln. of iodinated, solid-phase procedure for serum gentamicin (A), 1059

improved micro-scale liquid-chromatog. assay of gentamicin in plasma (L), 1846 non-equilibrium enzyme immunoassay of gentamicin, 1770

Globulins

reactivity of Coomassie Brilliant Blue G-250 with human albumin and globulins (A), 1026

Glomerular filtration rate problems in estimating glomerular filtration rate in patients with decreased creatine excretion (A), 995

Glucaric acid

increased D-glucaric acid excretion by jaundiced patients, 1759

lucose
adaptation of Trinder glucose procedure to
SMAC system (A), 1015
amperometric nonenzymatic detn. of serum
glucose by means of a Ni-catalyst electrode,

automated enzymic fluorometric assays for

blood glucose, lactate, pyruvate, alanine glycerol, and 3-hydroxybutyrate, 1724

blood glucose monitoring and computer regulation with artificial endocrine pancreas (A), 994 development and evaln. of a glucose analyzer for a glucose-controlled insulin infusion

system (Biostator) (S), 1366 development and evaln. of quality control serum containing low levels of glucose (A),

effect of mutarotation on multilayered ana element for the detn. of serum glucose (A),

evaln. of a glucose method in which a hydrogen peroxide electrode is used (L), 386 evaln. of co-immobilized

evain. of co-immobilized hexokinase/glucose-6-phosphate dehydrogenase method for glucose, as adapted to the Technicon SMAC, 1186 evaln. of human serum matrix ref. material for glucose (A), 1050

evaln. of Kodak 2/2 glucose-BUN analyzer (I) (A), 1063

glucose dehydrogenase method for measurement of glucose in biol. fluids (A),

glucose parallelism study (A), 1015 improved kinetic glucose detn. (A), 1015 lab. standn. in an internat. study: the Kaunas-Rotterdam Intervention Study (KRIS), 1126

modified retainer for prolonging uninterrupted use of the O₂ sensor in the Beckman Glucose Analyzer (L), 1083

novel dipstick for measuring glucosuria (A), 1006

1006
performance of "Kodak" glucose/BUN
analyzer (A), 1063
performance of Kodak 2/2 glucose/urea
nitrogen analyzer (A), 1063
plasma glucose measured with the Yellow
Springs Glucose Analyzer (SN), 150
relation between glycochemoglobin and fasting
plasma glucose (A), 994
re-use of enzyme reagent and elimination of
air-piston pipettes with the Beckman
Glucose-6-phosphate dehydrogenase
maleimide as ir.nibitor in measurement of

Glucose-e-pnospnate denyarogenase maleimide as ir.hibitor in measurement of erythrocyte glucose-6-phosphate dehydrogenase acty, 885 Glucose-BUN evaln. of Kodak 2/2 glucose-BUN analyzer (II)

(A), 1064

Glucose dehydrogenase glucose dehydrogenase method for measurement of glucose in biol. fluids (A), 1015

Glucose tolerance test variations in plasma non-esterified fatty acid concns. during glucose tolerance test (A),

Glucosuria

novel dipstick for measuring glucosuria (A), 1006

Glutamine detn. of CSF glutamine with the Du Pont aca (L), 2213

(L), 2213 detn. of spinal fluid glutamine utilizing Dupont ACA (A), 997 enzymic micro-assay for blood glutamine, 1730 fluorometric quantitation of glutamine in CSF (A), 997

-Glutamyltransferase

binding of human liver γ-glutamyltransferase to insolubilized lectins (A), 1013

fractionating γ-glutamyltransferase by electrophoresis on cellulose acetate (SN), 502

502
γ-glutamyltransferase acty. and bilirubin concn. (L), 723
inhibition of γ-glutamyltransferase: influence of instrumental error (L), 2215
isolation of γ-glutamyltransferase from human liver, comparison with that from kidney, 905
serum γ-glutamyltransferase procedure for Technicon SMA multichannel biochem. analyzers (A), 1001

Glutathione

anal. for glutathione in blood by high-performance liquid chromatog. 1140

automated enzymic fluorometric assays for blood glucose, lactate, pyruvate, alanine, glycerol, and 3-hydroxybutyrate, 1724 Glycohemoglobin

evaln. of a glycohemoglobin kit (L), 2073 relation between glycochemoglobin and fasting plasma glucose (A), 994

efficacy of iodoacetate as glycolytic inhibitor and its utility in clin. chem. procedures (A),

Glycoproteins correlation between carcinoembryonic antigen and new cancer-related glycoprotein pattern in cancer patients (A), 1003 serum glycoprotein electrophoresis in patients

with metastatic cancer (A), 1003 Gonadotropin

overnight urine in estrogen monitoring of ovulation induction therapy (A), 1043 GOT

e Aspartate aminotransferase

immobilized-enzyme nylon-tube reactor for routine detn. of serum uric acid, 1813

Gradient flotation faster lipoprotein isolation by gradient flotation (L), 174

Granulocyte turnover serum and urinary lysozyme acty, after kidney transplan: influence of graft function and therapy with azathioprine, 74

Guanidino acids guanidino acids as methyl acceptors in uremia (A), 1013

Guanidinosuccinate biosyn. of guanidinosuccinate, 2108

more on use of hair in trace-metal anal. (L), 391

trace elements in scalp-hair of persons with multiple sclerosis and of normal individuals, 1996

Halogenated hydrocarbons rapid detn. of light halogenated hydrocarbons in urine, 1109 Haptoglobin

serum haptoglobin concns. in "pure" iron-deficiency anemia (L), 839 Heart disease

chromatog. sepn. and continuously referenced, on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408 creatine kinase isoenzyme variants in human

serum (SN), 832 development and evaln. of a method for

quantitation of plasma high-density-lipoprotein cholesterol, 1112 electrophoretic patterns on agarose of human serum very-low-density lipoproteins, 1439 enzymic detn. of cholesterol in serum lipoproteins separated by electrophoresis,

high occurrence of serum intermediate-density

lipoprotein in coronary heart disea patients (A), 1024 isoenzyme measurements in management of cardiac surgical patients (A), 982 lipoproteins as risk factors and protective

agents (A), 978
"oncometer" for clin. measurement of colloid

osmotic pressure of plasma, 1586 population distributions and determinants of

plasma lipoproteins (A), 979 RIA of creatine kinase isoenzymes in human serum: isoenzyme BB, 422

serum Cr and angiographically detnd. coronary artery disease, 541

Heavy metals

heavy-metal content of Al(OH)3 given to

heavy-metal content of Al(OH)₃ given to dialysis patients (A), 1012

Hemodialysis
bis(2-ethylhexyl) phthalate concns. in the serum of hemodialysis patients, 741
measurement of free and free-plus-peptide hydroxyproline in plasma, 204
time-concn. studies by liquid chromatography of metabolites removed during hemodialysis, 886

I

Hemoglobin free Hb assay in serum and plasma using leucomalachite green (A), 995 glycosylated Hb and metabolic control of diabetes mellitus (A), 994 Hb electrophoresis at alkaline pH on agarose gels (SN), 936
Hb electrophoresis in very thin agar gels (A),

method for estimating glycosylated

hemoglobins; its application to evaln. of diabetic patients, 1708 Microchromatographic methods for Hb A2 quantitation compared (SN), 2196 new whole blood oximeter control for

monitoring instrumentation which reports oxy Hb, carboxy Hb, met Hb, O₂ content and total Hb (A), 1064 studies on pseudoperoxidase activity of Hb (A), 1054

Hemoglobinopathies Hb electrophoresis at alkaline pH on agarose gels (SN), 936 lemolysis
effect of in vitro hemolysis on chem. values for

serum, 1966

Hemophilia A detection of hemophilia A carriers by use of frozen plasma samples (SN), 1628 Hemopyrrole

hemopyrrole and kryptopyrrole absent from urine of schizophrenics and normal persons, 230

Hepatic disease

See Liver disease

Heritable disorders
detn. of propionic acid and other short-chain
fatty acids in serum, 800

Hexosaminidase A

hexosaminidase A in amniotic fluid of Tay-Sachs fetuses, 1131 High-performance (-pressure)

chromatography ee Chromatography

Histamine improved spectrofluorometric method for anal. of histamine in blood (A), 1017

history of Cleveland Section, AACC, 1647 history of the North Carolina Section, AACC, 2058

Homovanillic acid more on gas-liquid chromatog, detn. of homovanillic and vanillylmandelic acids in urine from cases of neuroblastoma (L), 842

See the specific hormone of interest See the specific hormone of interest evaln. of commercially available method for parathyroid hormone; assocn. of values with total and ionized calcium (A), 993 evaln. of two commercial kits for measurement of ACTH (A), 1042

N-ethylmaleimide prevents destruction of corticotropin in plasma (SN), 826
parathyrin RIA: diagnostic utility of antisera to carboxyl-terminal fragments of human parathyrin, 451

to carboxyl-terminal fragments of human parathyrin, 451 production of follicle stimulating hormone by human trophoblastic and non-trophoblastic tumors (A), 1003 quant. cytochem.: the basis of sensitive bioassays for comparison of bio- and immuno-reactive hormone values (S), 1399 RIA of calcitonin in the plasma of rhesus monkey and man, 595 role of RIA for intact and carboxyl (C)-terminal immunoreactive parathyroid hormone in patient evaln (A), 1013 HPLC See Chromatography

HPLC
See Chromatography
Hydrogen peroxide
effects of bilirubin on detection of H₂O₂ by
use of peroxidase, 1778

use of peroxidase, 1778
β-Hydroxybutyrate
direct assays of lactate, pyruvate,
β-hydroxybutyrate, and acetoacetate with a
centrif. analyzer, 475
simultaneous assays of lactate,

β-hydroxybutyrate, alanine and ethanol (A),

1005
3-Hydroxybutyrate
automated enzymic fluorometric assays for
blood glucose, lactate, pyruvate, alanine,
glycerol, and 3-hydroxybutyrate, 1724
Hydroxycorticostero² Is

Hydroxycorticostero* 1s clin. lab. evaln. of non-hydrolytic XAD-2 column procedure for urinary 17-hydroxycorticosteroids (A), 1018 17-Hydroxycorticosteroids modified method for routine estimation of urinary 17-hydroxy corticosteroids (A), 994 Hydroxy-hemopyrrolenone

Hydroxy-hemopyrrolenone hydroxy-hemopyrrolenone, not kryptopyrrole, in the urine of schizophrenics and porphyrics (L), 2069
Hydroxyindole acetic simple detn. of high urinary excretion of 5-hydroxyindole-3-acetic acid with ferric chloride (SN), 149
Hydroxynoroline

Hydroxyproline measurement of free and free-plus-peptide hydroxyproline in plasma, 204

3-Hydroxyquinidine chromatog, behavior of 3-hydroxyquinidine (L), 1853 5-Hydroxytryptophan

detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction (SN), 376 Hydroxyvitamin D

Hydroxyvitamin D
high-performance liquid chromatog, assay to
measure 25-hydroxyvitamin D₂ and
25-hydroxyvitamin D₃ simultaneously in
serum (SN), 927
Hyperammonemia
direct miscomethod for colorimetry of corum

Hyperammonema
direct micromethod for colorimetry of serum
ornithine carbamoyltransferase acty., with
use of a linear std. curve, 101
Hyperamylasemia
marked hyperamylasemia associated with

carcinoma of the lung (CR), 1207 Hyperlipemia

yperipemia acute pancreatitis, hyperlipemia, and normal amylase, 815 electrophoretic patterns on agarose of human

serum very-low-density lipoproteins, 1439

Hyperlipidemia
oral activated charcoal hypolipidermic agent
(A), 1045

Hyperlipoproteinemia

criteria used in diagnosis of type III hyperlipoproteinemia: application and

hyperlipoproteinemia: application and comparison, 1445 electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 electrophoretic patterns on agarose of human serum very-low-density lipoproteins, 1439 enzyme immunoassay for human apolipoprotein B, the major protein moiety in low-density and very-low density lipoproteins, 455 hyperlipoproteinemia phenotype detn. by agarose gel electrophoresis updated, 227 Hyperparathyroidism serum ionized Ca and corrected total Ca in borderline hyperparathyroidism, 1962 Hyperphosphatasemia

Hyperphosphatasemia

More on transient hyperphosphatasemia in infancy—an insufficiently recognized syndrome (L), 520

syndrome (L), 520

Hyperprolinemia

non-chromatog, screening test for
hyperprolinemia (SN), 2178

Hypertension
plasma catecholamine measurement in
hypertension (A), 1002

hypertension (A), 993 relation of hypertension, lipids, and lipoproteins to atherosclerosis (R), 2081 role of renin profiling in the diagnosis and treatment of hypertension (A), 980

Hypocalcemia
biochem. changes in a porcine model of acute
pancreatitis, 881

Hypothyroidism
neonatal hypothyroid screen: other sources of error, and their elimination (L), 336
screening the newborn, including congenital hypothyroidism (A), 967
IFCC

provisional recommendation on quality control in clin. chem. part 5. external quality control (SR), 1213 Xth International Congress of Clinical Chemistry, 848, 1091

See Immunoglobin(s), Immunologic disorders

IgA fluorescence quenching immunoassay for human IgA (A), 1033

ce quenching immunoassay for IgM (A), 1015 Image dissector

an echelle spectrometer:image dissector system evald. for simultaneous multielement detns. by atomic absorption spectroscopy, Immobilized enzymes

chromatog. sepn. and continuously referenced, on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408 coupled reactions of immobilized enzymes and

coupled reactions of immobilized enzymes and immobilized substrates: clin. application exemplified by amylase assay (S), 1393 immobilized enzymes (A), 974

Immunoassay automatic loading of a centrifugal analyzer for enzyme immunoassays (L), 1285 enzyme immunoassays (L), 1286 enzyme immunoassay (L), 1284 steroid immunoassay in clin. chem. (R), 1869 the "Southmead System," a simple, fully-automated, continuous-flow system for immunoassays [appendix: application to serum thyroxine RIA], 571

Immunochemistry
See also Radioassay, Radioimmunoassay

mmunochemistry

See also Radioassay, Radioimmunoassay
accuracy of immunolog, methods for
measurement of creatine kinase isoenzyme
activities (L), 179
anal. particle electrophoresis applied to
immunologic research (S), 1300
antigen excess detection using microprocessor
directed nephelometer (A), 1009
antisera as a source of inaccuracy in protein
immunoassays (L), 388
assay of an antitumor protein.

immunoassays (L), 388
assay of an antitumor protein,
neocarzinostatin, and its antibody by
fluorescence polarization, 2139
assessment of antibody affinity from RIA, 419
hexosaminidase A in amniotic fluid of
Tay-Sachs fetuses, 1131
immunochem. inhibition assay for
measurement of mitochondrial aspartate
aminotransferase in serum (A), 989
immunochem. study of patient with
circulating autoantibody to triiodothyronine
(A), 992

(A), 992
lab. approaches to clin. immunol. (A), 984 method-specific variations in the calibration of a new immunoglobulin std. suitable for use in nephelometry, 531 parathyrin RIA: diagnostic utility of antisera to carboxyl-terminal fragments of human parathyrin, 451

parathyrin, 451 radioimmunological screening test for anti-thyroglobulin autoantibodies, 272 rapid quantitation and characterization of insulin antibodies, 890 RIA of creatine kinase isoenzymes in human serum: isoenzyme MM, 414

RIA of creatine kinase isoenzymes in human, serum: isoenzyme BB, 422

two immunofluorescent methods compared with a radial immunodiffusion method for measurement of serum immunoglobulins,

use of vertical rotor to facilitate estrogen and progesterone receptor anal. (SN), 1609 Immunodeficiency disease

microestimation of adenosine deaminase acty. in dried blood spots on filter paper, 591 Immunoelectrophoresis
Corning thin-film agarose and Hyland thick-film agar immunoelectrophoresis: performance comparison (SN), 1634 non-barbital buffer for immunoelectrophoresis and zone electrophoresis in agarose gels (SN), 1825 Immunofluorescence

comparison of anti-DNA antibody as detected by the Farr technique and the FIAX immunofluorescence assay (A), 1018 two immunofluorescent methods compared with a radial immunodiffusion method for

rement of serum immunoglobulins

Immunoglobulins method-specific variations in the calibration of a new immunoglobulin std. suitable for use in nephelometry, 531 prepn. of saliva samples for immunochemical

detns. of immunoglobulins and for assay of lysozyme (L), 1421

lysozyme (L), 1421
quantit. ultramicro-scale immunoenzymic
method for measuring Ig antigenic
determinants in single cells (S), 1325
some changes in IgG immunoglobulin concns.
in Co-60 treated cancer patients as detected
by comparison of results from two anal.
methods (A), 1026
two immunofluerscent mathematics.

two immunofluorescent methods compared with a radial immunodiffusion method for measurement of serum immunoglobulins,

Immunologic disorders antibiotic assays and immunologic detection of bacteria (A), 983 Immunonephelometry estn. of apolipoprotein B by immunonephelometry, 788

Immunoradiometry
polystyrene tube immunoradiometric assay for human α₁-fetoprotein, use for mass screening, 2158

Immunosuppression
serum and urinary lysozyme acty, after kidney
transplan.: influence of graft function and
therapy with azathioprine, 74
Inborn errors of metabolism

See Inherited disorders

Infertility p-nitrophenol-a-D-glucopyranoside as substrate for measurement of maltase acty. in semen, 208

Information for authors information for authors (E), 1 Information retrieval

archival storage of clin. lab. data, 436 Inherited anomalies bisalbuminemia. new molecular variant, Albumin Vancouver, 1912 Inherited disorders

nherited disorders
Cu coproporphyrin excretion in familial
coproporphyria, 2009
cystic fibrosis (A), 968
genetic screening: current perspectivesfuture
horizons (A), 966
hexosaminidase A in amniotic fluid of
Tay-Sachs fetuses, 1131

Tay-Sachs fetuses, 1131
maleimide as inhibitor in measurement of
erythrocyte glucose-6-phosphate
dehydrogenase acty. 885
polystyrene tube immunoradiometric assay for
human a₁-fetoprotein, use for mass
screening, 2158
prenatal diagnosis and somatic cell
hybridization studies of genetic metabolic
diseases (A), 967
screening for urinary oligosaccharides: quant.
proced. 669
screening for urinary oligosaccharides in a

screening for urinary oligosaccharides in a

mentally handicapped population and patients with other diseases (SN), 714

patients with other diseases (SN), 714 screening the newborn, including congenital hypothyroidism (A), 967 sepn. and anal. of arylsulfatase isoenzymes in body fluids of man (S), 1305 value of complement assays in clin. chem. (R),

Inorganic phosphatase modified colorimetric assay of inorg. P and alk. phosphatase in serum (L), 1847 Inorganic phosphate

alternative mechanized method for anal. for inorg, phosphate without reduction (SN), 1836

Insulin
blood intermediary-metabolite and insulin
concos. after overnight fast: reference ranges
for adults, and interrelations, 1568
cultured human fibroblasts: possible in vitro bioassay for insulin (A), 1042 insulin and related peptides in plasma and islets of Langerhans (A), 982

rapid quantitation and characterization of

relationship between free insulin level and insulin receptor binding in adult-onset diabetics on insulin-therapy (A), 993

Interinstrument comparison evaln. of the multichannel analyzer, "Astra-8".

Interlaboratory performance anal. performance and comparability of detn. of triglycerides by 12 Lipid Research Clinic laboratories, 330 evaln. of interlab, performance for aspartate

evain. of internal, performance for aspartate aminotransferase (A), 990 external quality-control survey of cholesterol anal, performed by 12 Lipid Research Clinics, 1477 interlab, comparison of Pb and Cd in blood,

urine, and aq. solns. 1797 interlab. comparisons of N anal. in urine by

atomic absorp. spectrometry, 862 interlab. study of measurement of aspartate aminotransferase acty, with use of purified

enzyme, 916
lab. standn. in an internat. study: the
Kaunas-Rotterdam Intervention Study
(KRIS), 1126

(RRIS), 112b multi-lab. comparison of 3 heparin-Mn²⁺ pptn. procedures for estg. cholesterol in high-density lipoprotein, 853 performance evaln. of multi-channel analyzers by use of linearly-related survey specimens,

quant. toxicol.: interlab. and intermethod evaln. in N. Y. state, 442 re-appraisal of interlab. variability in antiepileptic drug detns. (A), 1050 report on cooperative digoxin experiment (A),

Intermediary metabolites blood intermediary-metabolite and insulin concns. after overnight fast: reference ranges for adults, and interrelations, 1568 Intermethod comparison

adaptation of Trinder glucose procedure to SMAC system (A), 1015 albumin activation of urinary amylase as detnd. with the Du Pont aca (SN), 702 anal. for Ni in plasma and urine by electrothermal at. absorption spectrometry, with sample preparation by protein pptn.

(SN) 1198

an echelle spectrometer:image dissector system evald, for simultaneous multielement detns, by atomic absorption spectroscopy,

602
an evaln. of Beckman Liq. Enzyme Reagents
on Beckman System TR and Gilford System
3500 (A), 1037
automated measurement of serum thyroxine
with the "ARIA II," compared with
competitive protein binding and RIA (SN),
342

competitive protein binding and RIA (SN), 342
chem, and immunochem, measurement of total Fe-binding capacity compared, 1788
commercial. RIA kit evaln, with assay-conditional Scatchard plots (A), 1016
comparative detn. of phenytoin by spectrophotometry, GC, LC, enzyme immunoassay, and RIA (SN), 710
comparison of amniotic fluid tests for fetal lung maturity (A), 1014
comparison of data obtained by nephelometry and radial immunodiffusion on normal and abnormal CSF samples (A), 1016
comparison of product moment and rank correl. coeffs. in the assessment of lab, method-comparison data, 857
comparison of protamine sulfate and dextran-coated charcoal assays for estrogen

dextran-coated charcoal assays for estrogen receptor (A), 1004

comparison of radioassay and microbiological

comparison of radioassay and microbiological assay for serum folate with clin. assessment of discrepant results, 2192 comparison of reults obtained for amylase clearance and amylase creatinine clearance ratio by Somogyi and Amylochrome methods (A) 1096 (A), 1036

(A), 1036
comparison of RIA enzyme immunoassay,
HPLC and U.V. spectrophotometry for the
detn. of serum theophylline (A), 1057
comparison of theophylline measurements by
HPLC and enzyme immunoassay (A), 1057
computer-controlled SMA-12, evaln. and 18
months of experience with Vickers SP-120
(A), 1061

(A), 1061 correlation between carcinoembryonic antigen and new cancer-related glycoprotein pattern in cancer patients (A), 1003 counterimmunoelectrophoresis in detn. of prostatic acid phosphatase in serum (SN),

current methods compared for high density lipoprotein cholesterol quantitation (A), 1025

detn. of uric acid on continuous-flow (AutoAnalyzer II and SMA) systems with a uricase/phenol/4-aminophenazone color test,

direct solid-phase 125I RIA of serum cortisol

1599 effect of EDTA and reduced thiols on CK isoenzymes in samples (A), 1004 efficacy of iodoacetate as glycolytic inhibitor and its utility in clin. chem. procedures (A),

998 electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 enzymatic detn. of blood ethanol, with

amperometric measurement of rate of O₂ depletion, 621 enzymatic triglyceride method suitable for

enzymatic triglyceride method suitable for long-term population studies, 326 enzyme immunoassay for human apolipoprotein B, the maior protein moiety in low-density and very-low density lipoproteins, 455 enzymic serum cholesterol measurement with a basic AutoAnalyzer and the Du Pont aca

method (SN), 1624 evaln. of clin. utility of Limulus test with three body fluids (A), 1006 evaln. of co-immobilized

evaln. of co-immobilized hexokinase/glucose-6-phosphate dehydrogenase method for glucose, as adapted to the Technicon SMAC, 1186 evaln. of EMIT procedure for theophylline: comparison with spectrophotometric and HPLC procedures (A), 1056 evaln. of Hynson, Westcott, and Dunning Rheumatoid Factor Macro-Vue Card Test

(A), 1014

evaln. of performance of Technicon SMA 12/60 and Vickers SP120 system (A), 1061 ferritin RIA evaln.: abnormalities in Scatchard plots (A), 998

norometry of erythrocyte protoporphyrin in blood: direct (hematofluorometric) and indirect (extraction) methods compared.

glucose parallelism study (A), 1015 IL 7-channel system as an alternative to sequential multichannel analyzers (A), 1061 immobilized-enzyme nylon-tube reactor for routine detn. of serum uric acid, 1813

interlab, comparisons of N anal, in urine by atomic absorp, spectrometry, 862 interlab, study of measurement of aspartate aminotransferase acty, with use of purified

enzyme, 916 ionized Ca, Na, and K simultaneously by electrode: comparison with flame

photometry and atomic absorption (total Ca) (A), 1062 lactate to pyruvate or pyruvate to lactate assay for lactate dehydrogenase: a re-exam. (A), 1001

long-term evaln. of Technicon STAT/ION system, flameless electrolyte analyzer (A), 1061

measurement of alkaline phosphate acty.: evaln. of inert and transphosphorylating buffer systems (A), 1001

buffer systems (A), 1001 method-specific variations in the calibration of a new immunoglobulin std. suitable for use in nephelometry, 531 methotrexate: comparative study of anal. methods (A), 1059 modn. of A 1251 myoglobin RIA for state detns. (A), 999

multilayer film elements for clin. anal.: general concepts (S), 1335 new albumin methods for the Technicon

SMAC and STAC instruments, based on bromcresol-green dye binding (A), 1004 performance evaln. of multi-channel analyzers by use of linearly-related survey specimens,

do3
plasma estriol vs. estrogen assays in 24-h
urines: index to fetal status (SN), 1830
proteinuria: accuracy and precision of lab.
diagnosis by dip-stick anal, 1934
quant. toxicol.: interlab. and intermethod
evaln. in N. Y. state, 442
radia immunodiffusion and
fluoroimmunoassay of immunoglobulins in
cord blood and newborn serum (A), 1016
reducing the interference from globulins in
bromcresol green detn. of serum albumin
(A), 1004

(A), 1004
RIA of methaqualone in human urine compared with chromatog. 1473 serum cholinesterase activity: predictor of succinyl choline sensitivity? assessment of

four methods, 1762 serum y-glutamyltransferase procedure for Technicon SMA multichannel biochem. analyzers (A), 1001

serum uric acid detnd. by reversed-phase liquid chromatog, with spectrophotometric detection, 536

six alk. picrate methods for serum creatinine compared with a highly specific enzymatic assay (A), 997

triiodothyronine uptake test with use of antibody-coated tubes compared to tw tests in which pptn sepns. are used (SN),

two electrophoretic and two column-chromatographic kits compared for detng. serum CK isoenzyme MB acty. (SN),

variance components of serum constituents in healthy individuals, 212 International Congress of Clinical Chemistry X Int. Congr. of Clin. Chem. 841, 1091

Intrinsic factor
coated tube assay for B₁₂ with
hapten-modified intrinsic factor as
competitive protein-binder (A), 1054

In vivo analyses continuous plasma sampling for in vivo anal. (A), 996 Iodoacetate

efficacy of iodoacetate as glycolytic inhibitor and its utility in clin. chem. procedures (A),

998
Ion-selective electrodes
anal. for K in human erythrocytes by use of a
standard-additions method and an
ion-selective electrode, 635
detn. of ionized Ca with the Orion SS-20 and
AMT Electrion Auto compared (L), 2066
evaln. of the "Space Stat 20 Ionized Calcium
Analyzer" (L), 731
higher values for ionized Ca with a new type
of electrode for Orion SS-20 (L), 2070
meas. of Cl' in sweat with the Cl-selective
electrode (SM), 2050
measurement of free Ca ion in capillary blood

measurement of free Ca ion in capillary blood and serum, 1545

Na measured in albumin solns, with ion-selective electrodes, 580 performance evaln, of multi-channel analyzers

by use of linearly-related survey specimen

changes in serum ferritin and hematological parameters in normal males with constant monthly blood loss (A), 1054 diurnal variation of serum Fe in normal

diurnal variation of serum Fe in normal individuals (LL, 842 evaln. of a radiometric detn. of total and unsaturated Fe-binding capacities and serum Fe (SN), 374 iron status of breast- and formula-fed infants with and without supplemental iron in first 12 months of life (A), 1011

12 months of life (A), 1011

Iron-binding capacity
chem. and immunochem. measurement of
total Fe-binding capacity compared, 1788
evaln. of a radiometric detn. of total and
unsaturated Fe-binding capacities and
serum Fe (SN), 374
measurement of iron-binding capacity by
simplified radioassay (A), 1029

Iron metabolism
ascorbic acid and Fe metab, in Macaca

ascorbic acid and Fe metab. in Macaca fasicularis (Cynomolgus) monkey (A), 1014

Isoelectric focusing characterization of the principal human prostatic acid phosphatase isoenzyme, purified by affinity chromatog, and isoelectric focusing. Part II, 1783 faster RIA of angiotensin I at 37 °C, 115 purifin. of human prostatic acid phosphatase by affinity chromatography and isoelectric

by affinity chromatography and isoelectric focusing. I. 466

selective staining of α_1 -antitrypsin (α_1 -protease inhibitor) with Schiff's reagent after sepn. from serum by anal. isoelectrofocusing in polyacrylamide gel (SN), 153

Isoenzymes
albumin-bound fluorescence: potential source
of error in fluor. assay of creatine kinase BB
isoenzyme (L), 1849
chromatog. sepn. and continuously referenced,

cnromatog, sepn. and continuously reference on-line monitoring of creatine kinase isoenzymes with an immobilized-enzyme microreactor (S), 1408 column-chromatog, sepn. of isoenzymes of aspartate aminotransferase, 1805 creatine kinase in serum: 4. differences in substrate affinity among the isoenzymes,

creatine kinase in serum: 5. effect of thiols on isoenzyme acty. during storage at various temps. 1557

creatine kinase isoenzyme BB increases in serum after cardiac surgery (L), 1853

creatine kinase isoenzymes in serum of patients with cancer of various organs (L),

developing creatine kinase isoenzyme bands developing creatine kinase isoenzyme nanos with substrate in gelatin matrix (SN), 698 economical single cellulose acetate/plastic sandwich for developing and scanning CK/LDH isoenzymes (L), 2214 improved column method for separating lactate dehydrogenase isoenzymes 1 and 2 (SN) 1480

lactate dehydrogenase isoenzymes 1 and 2 (SN), 480 optimum photography of fluorescent isoenzyme patterns (L), 1081 purifin. of human prostatic acid phosphatase by affinity chromatography and isoelectric focusing. I. 466 rapid assessment of isoenzymes by high-performance liquid chromatog. (S), 1351

RIA of creatine kinase isoenzymes in human serum: isoenzyme MM, 414 RIA of creatine kinase isoenzymes in human serum: isoenzyme BB, 42?

serum: isoenzyme BB, 42?
selective purifn. of tartrate-inhibitable acid
phosphatases: purifn. (to homogeneity) of
human and canine prostatic acid
phosphatases; purifn. (to homogeneity) of
human and canine prostatic acid
phosphatases, 1525
sepn. and anal. of aryisulfatase isoenzymes in
body fluids of man (S), 1305
situations leading to increased creatine kinase
isoenzyme BB acty. in serum (L), 729
Isomaltase
p-nitrophenol-α-D-glucopyranoside as
substrate for measurement of maltase acty.
in semen, 208
Isopropanol

Isopropanol pitfalls of the alcohol dehydrogenase proced. for emergency assay of alcohol: a case study of isopropanol overdose (CR), 383 Jaundice

increased D-glucaric acid excretion by jaundiced patients, 1759

Ketoacidosis direct assays of lactate, pyruvate, β-hydroxybutyrate, and acetoacetate with a centrif. analyzer, 475

Kidney See Renal Kidney disease

detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace, 1485

1485
fluorescent compound(s) in serum of patients with chronic renal failure (L), 1084
natural fluorescence in serum of patients with chronic renal failure not from creatine kinase-BB isoenzyme (SN), 492
RIA for urinary albumin, 1464
spurious brain creatine kina in serum from patients with renal disease (sN), 1636
urinary enzymes and renal transplantation; the early warning controversy (L), 794 the early warning controversy (L), 724 Kidney transplantation

serum and urinary lysozyme acty, after kidney transplan.: influence of graft function and therapy with azathioprine, 74 Kinetic analysis evaln. of a kinetic method for simultaneous

detn. of conj. and unconj. bilirubins, 1700

Kinetic assays inetic assays automated procedure for kinetic measurement of total triglycerides (as glycerol) in serum with Gilford System 3500 (A), 1019 effect of bilirubin on direct kinetic detn. of serum creatinine (A), 1022 evaln. of stopped-flow method for kinetic detn. of bilirubin (A), 1022 fully automated kinetic assay for plasma NH.

fully automated kinetic assay for plasma NH3

fully automated kinetic assay for plasma NH₃ (A), 996 improved kinetic glucose detn. (A), 1015 kinetic creatinine method utilizing optimized reagent suitable for manual, semi-automatic or automatic operation (A), 1017 kinetic procedure for serum and urine creatinine detn. on Clinicard 368 Analyzer (A), 1017 lyophilized substrate for the kinetic detn. of

lyophilized substrate for the kinetic detn. of

novel kinetic method for measurement of conjugated bilirubin with centrifugal analyzer (A), 1022

optimized kinetic serum triglyceride detn. (A),

Kinetic enzyme assay anal, for lactate and pyruvate with the LKB 8600 Reaction Rate Analyzer (L), 512 lab. evaln. of kinetic amylase procedure (A), 1036

Kit methods assay for unbound thyroxine (A), 992 computer-controlled instrument system for sequential chem. testing III. Application to liver assessment, 555

cross reactivity of digitoxin and spironolactone in two RIAs for serum digoxin (SN), 706

cross reactivity of dihydrodigoxin with a commercial digoxin kit (L), 1086 effects of bilirubin on detection of H₂O₂ by use of peroxidase, 1778

enzymic detn. of plasma NH₃: evaln. of Sigma and BMC kits (SN), 2044 evaln. of a ferritin test kit in relation to the

evain. of a territin test kit in relation to the high-duse parabolic phenomenon (L), 1650 evaln. of a glycohemoglobin kit (L), 2073 evaln. of Calbiochem-Behring Corp. Triglycerides S.V.R. (single vial reagent) (L), 2210

evaln. of Sigma and BMC kits for detn. of

evain, of Sigma and both, this for deth, of plasma ammonis (A), 1018 evaln, of two commercial kits for measurement of ACTH (A), 1042 human chorriogonadotropin: results compared for two beta-subunit RIA kits and

for two beta-subunit RIA kits and radioreceptor kit (A), 1042 inaccuracy detected in acid phosphatase kit methods (L), 168 kit vendors: make the purchaser aware of compromises (L), 1653 maleimide as inhibitor in measurement of erythrocyte glucose-6-phosphate dehydrogenase acty. 885 manual and centrifugal analyzer detn. of cholesterol and trielycerides with single-view.

manual and centrifugal analyzer detn. of cholesterol and triglycerides with single-vial enzymic reagents (SN), 2026 Phadebas amylase test with albumin (LJ, 2212 radioassay kits compared with microbiol. assay of folate in serum and whole-blood (SN),

RIA of serum myoglobin: evaln. and modn. of RIA of serum myoglobin: evaln. and modn. of a commercial kit, its usefulness for detecting acute myocardial infarction (SN), 2047 spurious underestn. of results for digoxin RIA with a commercial kit (SN), 494 T4 by RIA: critical evaln. of six commercially available kits (A), 1039 two electrophoretic and two column-chromatographic kits compared for deting. serum CK isoenzyme MB acty. (SN), 2013

two immunofluorescent methods compared with a radial immunodiffusion method for measurement of serum immunoglobulins

variability among commercially available digoxin RIA kits in cross reactivity to dihydrodigoxin (SN), 155

Kryptopyrrole hemopyrrole and kryptopyrrole absent from urine of schizophrenics and normal persons,

hydroxy-hemopyrrolenone, not kryptopyrrole, in the urine of schizophrenics and porphyrics (L), 2069 Lactate

anal. for lactate and pyruvate with the LKB

anal. for lactate and pyruvate with the LKB 8600 Reaction Rate Analyzer (L), 512 automated enzymic fluorometric assays for blood glucose, lactate, pyruvate, alanine, glycerol, and 3-hydroxybutyrate, 1724 direct assays of lactate, pyruvate, β-hydroxybutyrate, and acetoacetate with a centrif. analyzer, 475 simultaneous assays of lactate, β-hydroxybutyrate, alanine and ethanol (A), 1005

1005

Lactate dehydrogenase improved column method for separating lactate dehydrogenase isoenzymes 1 and 2

lactate dehydrogenase isoenzymes 1 and 2 (SN), 480 isoenzyme distribn. of CK and LDH in serum and skeletal muscle in Duchenne muscular dystrophy, collagen disease, and other muscular disorders, 1985 lactate to pyruvate or pyruvate to lactate

assay for lactate dehydrogenase: a re-exam.
(A), 1001

optimal conditions for and comparison of optimal conditions for and comparison of LDH catal. of the lactate-to-pyruvate and pyruvate-to-lactate reactions in serum at 25, 30, and 37°C (SN), 828 optimal reaction conditions for assaying human LDH, pyruvate-to-lactate, at 25, 30, 37°C, 261

rapid assessment of isoenzymes by high-performance liquid chromatog. (S),

1331
reflectance spectroscopy as anal. tool in clin.
lab.: application to the quant. detn. of
lactate dehydrogenase in serum (A), 1009
reliability of LD isoenzymes in percentage
units (A), 1036

units (A), 1036
spurious brain creatine kinase in serum frompatients with renal disease (SN), 1636
total LDH activity and isoenzyme distribution
as predictors of cancer in cavity fluids.
correlation with cytolog, and histolog,
findings (A), 1048
Lactic acidemia

detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

LDH

See Lactate dehydrogenase Lead anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 1182 interlab. comparison of Pb and Cd in blood, urine, and aq. solns. 1797 lead screening in children of high risk:

lead screening in children of high risk: four-year review (A), 1058 some factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504 Lead poisoning fluorometry of erythrocyte protoporphyrin in blood: direct (hematofluorometric) and

indirect (extraction) methods compared,

interlab. comparison: erythrocyte protoporphyrin analyses, 2135 modified erythrocyte uroporphyrinogen I synthase assay, and its clin. interpretation, 1751

some factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504 ultramicro erythrocyte protoporphyrin detn.

using solvent extraction without sample transfer (A), 1058

Lecithin

enzymatic method for detn. of amniotic fluid lecithin (A), 1044

Lecithin/sphingomyelin ratio
flexible procedure for estg. the L/S ratio (L),

modified method for estg. the L/S ratio in amniotic fluid (L), 174 simultaneous detn. of phosphatidylglycerol and the lecithin:sphingomyelin ratio in

amniotic fluid, 1144

anal. particle electrophoresis applied to immunologic research (S), 1300 isolation of γ-glutamyltransferase from human liver, comparison with that from kidney, 905 Leukemia bicchem characteristics.

biochem. characterization of an aryl acetic ester hydrolase from human monocytes, 1177

arty and urinary lysozyme acty, after kidney transplan.: influence of graft function and therapy with azathioprine, 74 tartrate-resistant (band 5) acid phosphatase acty, measured by electrophoresis on acrylamide gel, 309

Leukocytes biochem. characterization of an aryl acetic ester hydrolase from human monocytes,

carotenoids in the leukocytes of carotenem and non-carotenemic individuals (SN), 700 detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

Lidocaine enzyme immune

nzyme immunoassay and gas chromatog. compared for detn. of lidocaine in serum (SN), 2020 gas-liquid chromatog. detn. of bupivacaine and lidocaine in plasma, 1573

Limulus test evaln. of clin. utility of Limulus test with three body fluids (A), 1006

Lipase lyophilized substrate for the kinetic detn. of serum lipase acty. (A), 1001

ipids ransport in lipoproteins: role in atherosclerosis (A), 978 negligible effects of nonesterified fatty acids on serum thyroxine anal. by competitive protein-binding radioassay on Sephadex and

by R1A, 751
relation of hypertension, lipids, and
lipoproteins to atherosclerosis (R), 2081
serum lipids in cystic fibrosis and absence of
heterozygote advantage (A), 1044

Lipoproteinemia See Lipoproteins

See Lipoproteins
Lipoproteins
cholesterol in high-density lipoprotein: use of
Mg²⁺/dextran sulfate in its enzymic
measurement (SN), 931
comparison of agarose and polyacrylamide
techniques for lipoprotein electrophoresis
(L), 2066

correlation of HDL cholesterol and glycohemoglobin concrns. in diabetes mellitus (A), 1024 current methods compared for high density lipoprotein cholesterol quantitation (A),

detn. of high-density lipoprotein cholesterol in serum with a centrifugal analyzer (A), 1024 -development and evaln. of a method for quantitation of plasma high-density-lipoprotein collesterol, 1112 "disappearing" lipoprotein X (L), 840 electroimmunoassay, RIA, and radial

immunodiffusion assay evaluated for human apolipoprotein B, 280

electrophoretic patterns on agarose of human serum very-low-density lipoproteins, 1439 enzymatic detn. of cholesterol in serum lipoproteins separated by electrophoresis (A), 1025

enzymic detn. of cholesterol in serum lipoproteins separated by electrophoresis, 1116

1116
faster lipoprotein isolation by gradient
flotation (L), 174
heparin-Mn+ quantitation of
high-density-lipoprotein cholesterol:
ultrafiltration procedure for lipemic
samples, 900
high-density lipoproteins estimated by an
enzymatic cholesterol procedure, with a
centrifugal analyzer (SN), 2180
high occurrence of serum intermediate-de-

centrifugal analyzer (SN), 2180 high occurrence of serum intermediate-density lipoprotein in coronary heart disease patients (A), 1024 hyperlipoproteinemia phenotype detn. by agarose gel electrophoresis updated, 227 lipoprotein cholesterol in the serum of children, as detnd. independently by two different methods (SN), 157 lipoprotein metabolism and structure (A), 977 lipoproteins as risk factors and protective agents (A), 978

hpoproteins as risk factors and protective agents (A), 978 lipoprotein X and alkaline phosphatase as indicators of cholestasis (A), 1048 method for rapid sepn. and quantitation of high density lipoprotein cholesterol in serum (A), 1025

high density lipoprotein cholesterol in serum (A), 1025 multi-lab. comparison of 3 heparin-Mn²⁺ pptn. procedures for estg. cholesterol in high-density lipoprotein, 853 new method for quantitation of α -lipoprotein cholesterol (A), 1025 population distributions and determinants of plasma lipoproteins (A), 979 possible mechanism for intermediate-density lipoprotein accumulation in serum of uremic patients on chronic hemodialysis (A), 1024 relation of hypertension, lipids, and lipoproteins to atherosclerosis (R), 2081 separation of high-density lipoprotein cholesterol by column chromatog. (A), 1024 simultaneous detn. of serum cholesterol in high- and low-density lipoproteins with use of heparin, Ca²⁺, and anion-exchange resin, 1504

test precision and high-density-lipoprotein

the precision and nigh-density-lipoprotein cholesterol (L), 2061 use of the Du Pont aca to measure cholesterol in high-density lipoprotein fractions prepared by the heparin/Mn²⁺ pptn.

Lithium Li detn. by flame photometry (L), 2209

Liver disease aspartate aminotransferase acty. and aspartate animotansierase accy, and isoenzyme proportions in human liver tissue, 1971 bile acids measured in serum during fasting as a test for liver disease, 1095 clin. utility of cholylglycine in alc. liver disease

(A), 996

(A), 996 computer-controlled instrument system for sequential chem. testing III. Application to liver assessment, 555 continuous-flow detn. of bile acids in serum, and clin. application, 1150 direct micromethod for colorimetry of serum

direct micromethod for colorimetry of serum ornithine carbamoyltransferase acty., with use of a linear std. curve, 101 evaln. of a kinetic method for simultaneous detn. of conj. and unconj. bilirubins, 1700 excretion of X-prolyl dipeptidyl-aminopeptidase in urine as detnd with a new fluorogenic substrate, 1163 fractionating \(\gamma_g \) glutamyltransferase by electrophoresis on cellulose acetate (SN), 502

increased D-glucaric acid excretion by jaundiced patients, 1759

Liver function consequences of testing liver function (L), 2210

Lysosomal enzymes increased lysosomal enzymes in lung carcinoma (A), 1002

Lysozyme
effect of antibody binding on the mobility of
serum lysozyme (L), 514

prepn. of saliva samples for immunochemical detns. of immunoglobulins and for assay of lysozyme (L), 1421 problems of laser nephelometry in human lysozyme assay (L), 176 RIA for urinary lysozyme in human serum from leukemic patients, 2155 serum and urinary lysozyme acty, after kidneserum activity activity and urinary lysozyme acty, after kidneserum activity activity activity activity.

serum and urinary lysozyme acty, after kidney transplan.: influence of graft function and therapy with azathioprine, 74

Magnesium
plasma Ca, Cu, Mg, and Zn concns. in patients
with alcohol withdrawal syndrome, 1553

p-nitrophenol-α-D-glucopyranoside as substrate for measurement of maltase acty, in semen, 208

Manganese artifacts in Mn/Tris solns. (L), 2206 flameless atomic absorption spectrophotometric detn. of Mn in rat brain and other tissues, 471

Mania biol. and pharmacol. of mania (A), 986

Mannosidosis improved thin-layer chromatog, method in diagnosis of mannosidosis, 1576

homogeneous enzyme immunoassay for

homogeneous enzyme immunoassay for cannabinoids in urine, 95 Mass fragmentography detn. of 3-methoxy-4-hydroxyphenylpyruvic acid. 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylmandelic acid in urine by mass fragmentography, with 2H-labeled intern. stds. 2001 detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography. 129

fragmentography, 122 mass-fragmentographic detn. of catecholamine

metabolites in amniotic fluid and its possible clin. usefulness, 1899 ionitoring amitriptyline and nortriptyline by chem. ionization mass fragmentography (A),

serum estradiol-17β as detnd. by ma fragment@graphy and by RIA, 627

Mass spectrometry anal. for 1,3-bis/2-chloroethyl)-1-nitrosourea

by chem. ionization mass spectrometry, 45 automated metabolic profiling of org. acids in urine. I. description of methods, 1674 comparison of homogeneous enzyme immunoassay and gas chromatog.—mass spectrometry for anal. of drugs of abuse in urine (A.) 1631

spectrometry for anal. of drugs of abuse in urine (A), 1631 detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography, 122

mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899 negative-ion mass spectrometry of

negative-ion mass spectrometry of amphetamine congeners, 1720 quant. GC-MS of propranolol, key to improved understanding of relationship between plasma concns. and dose (A), 991 quant. metabolic profiling based on gas chromatog. (R), 1663 sensitive gas-chromatog. detn. of fluphenazine

in plasma, 41 Mechanized analysis See Analytical systems, Centrifugal analyzer, Continuous-flow analysis, or specific instrument of interest

Membrane phenomena anal. particle electrophoresis applied to immunologic research (S), 1300 Membrane radioreceptor assay improved iodination of peptides for RIA and membrane radioreceptor assay, 796 Menstrual cycle

preservation of acid phosphatase act medico-legal specimens (SN), 486 Mental disorders

biochemistry of depression (A), 986 biol. and pharmacol. of mania (A), 986 recent genetic and biochem. approaches to schizophrenia (A), 985

screening for urinary oligosaccharides in a mentally handicapped population and patients with other diseases (SN), 714 unwanted effects of psychotherapeutic drugs unwante. (A), 987

(A), 987

Mercury
whole blood Hg anal. by flameless atomic
absorption (A), 1029

Mesoridazine
new metabolites by thioridazine and
mesoridazine (A), 1031

Metabolic acidosis
direct assays of lactate, pyruvate,
β-hydroxybutyrate, and acetoacetate with a
centrif. analyzer, 475

Metabolic pathways

biosyn. of guanidinosuccinate, 2108

biosyn. of guandinosuccinate, 2108
Metabolic profiles
automated metabolic profiling of org. acids in
urine. I. description of methods, 1674
quant. metabolic profiling based on gas
chromatog. (R), 1663
Metabolic in

Metabolites

time-concn. studies by liquid chromatography of metabolites removed during hemodialysis,

Metanephrine differential fluorometric assay of metanephrine and normetanephrine in urine (A), 1042

Methaqualone
detection of methaqualone in human urine by
RIA and GLC after a therapeutic dose (L),

125I-RIA for methaqualone and its metabolites

in urine (A), 1000 RIA of methaqualone in human urine compared with chromatog. 1473

compared with chromatog. 1473

Methods for the small laboratory

Corning thin-film agarose and Hyland
thick-film agar immunoelectrophoresis:
performance comparison (SN), 1634
emergency detn. of acetaminophen (SN), 1642
method for estimating glycosylated
hemoglobins; its application to evaln. of
diabetic patients, 1708
programmable desk-top calculator used for
statistical quality control of RIAs, 1121
Methotrexate

Methotrexate
enzymatic inhibition assay for methotrexate
on discrete automated anal., ABA-100 (A),

homogeneous enzyme immunoassay for methotrexate in serum (A), 1032 methotrexate: comparative study of anal. methods (A), 1059 three radioligands, Se-75, I-125, and Tritium, compared in RIA of methotrexate, 1534 use of dihydrofolate reductase from bovine liver, rather than from L. casei, for detg. methotrexate (L), 518
3-Methoxy-4-hydroxymandelic acid liq. chromatogr. (HPLC) proced, for detn. of urinary 3-methoxy-4-hydroxymandelic acid (VMA) using post column reaction system (A), 1051

(A), 1051

normal values for urinary 3-methoxy-4-hydroxymandelic acid in children (L), 1853 3-Methoxy-4-hydroxyphenylpyruvic acid

detn. of 3 methoxy-4-hydroxyphenylpyruvic acid detn. of 3 methoxy-4-hydroxyphenylpyruvic acid, 3,4-dihydroxyphenylmandelic acid in urine by mass fragmentography, with ²H-labeled intern. stds. 2001

8-Methoxypsoralen detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer chromatog. 1155

Methyldopa urinary free methyldopa detnd. by reversed-phase high-performance liquid chromatog. 23

Methylglucamine
D)-)-N-methylglucamine buffer for pH 8.5 to
10.5 (SN), 379

M

M

Methylxanthines
evaln. of a glassy-carbon electrode for
amperometric detection of selected serum
methylxanthines after separation by
reversed-phase chromatog. 1711

methyprylon and its dehydrogenated metabolite in overdosed patients and dogs (A), 1060
Microchemical analysis future of clin. microchem. anal. (E), 189
Microfluorometry quant. cytochem.: the basis of sensitive bioassays for camparison of bio- and immuno-reactive hormone values (S), 1399

 β_2 -microglobulin β_2 -microglobulin in urine as index of chronic Cd exposure (A), 1012 solid phase RIA for β_2 microglobulin: sensitive index for renal allograft evaln. (A), 995

Microspectrometry
quant. cytochem.: the basis of sensitive
bioassays for comparison of bio- and
immuno-reactive hormone values (S), 1399
Mineral metabolism

See Trace elements or specific element of interest

interest
Monitoring therapy
See also drug of interest
anal, for carbamazepine in serum by
electron-capture gas chromatog. 895
automated assay of 9-aminobutyric acid in
human CSF, 256

detn. of drugs in plasma by high-performance thin-layer chromatog. (S), 1386

detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction (SN), 376

development and evaln. of a glucose analyzer for a glucose-controlled insulin infusion system (Biostator) (S), 1366

System Grisstator (27), 1000 direct assays of lactate, pyruvate, β-hydroxybutyrate, and acetoacetate with a centrif, analyzer, 475 enzymatic radioassay for gentamicin (SN),

2145
liquid-chromatog, detn. of theophylline in plasma (SN), 357
prelim. evaln. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or benign neoplasms, 868 results of drug monitoring proficiency testing program conducted by CDC (A), 1032 simultaneous liquid-chromatog, detn. of 12 common sedatives and hypnotics in serum, 657
heophylline toxicity (CC), 1603

theophylline toxicity (CC), 1603 therapeutic monitoring of drugs (A), 970 three radioligands, Se-75, I-125, and tritium, compared in RIA of methotrexate, 1534

Monitoring treatment computer-controlled instrument system for sequential chem. testing III. Application to liver assessment, 555 Monkeys

Moneys
RIA of calcitonin in the plasma of rhesus
monkey and man, 595
Mono-(2-ethylhexyl) phthalate
RIA for mono-(2-ethylhexyl) phthalate in
unextracted plasma, 429

Morphine formaldehyde interference with fluorescence

detn. of morphine (L), 840 solid-phase RIA for morphine, with use of an affinity-purified morphine antibody (SN), Multi-element analysis

trace elements in scalp-hair of persons with multiple sclerosis and of normal individuals, 1996

Multilayer film analysis evaln. of Kodak 2/2 glucose-BUN analyzer (I) (A), 1063 evaln. of Kodak 2/2 glucose-BUN analyzer (II)

(A), 1064 "Kodak" analyzer instrumentation functions

(A), 1008

(A), 1008
multilayer film elements for clin. anal.: general
concepts (S), 1335
multilayer film elements for clin. anal.:
applications to representative chem. detns.
(S), 1343
new technology for the clin. lab. (A), 1008
performance of "Kodak" glucose/BUN
analyzer (A), 1063
performance of Kodak 2/2 glucose/urea
nitrogen analyzer (A), 1063
rapid, precise, and accurate element for the
ouant. measurement of serum uric acid (A),

quant. measurement of serum uric acid (A), 1008

Multiple sclerosis
trace elements in scalp-hair of persons with
multiple sclerosis and of normal individuals, Muscular disorders

isseenzyme distribn. of CK and LDH in serum and skeletal muscle in Duchenne muscular dystrophy, collagen disease, and other muscular disorders, 1985

Muscular disorders, 1909

Muscular dystrophy
diminished membrane protein mobility in
lymphocytes from patients and carriers of
Becker's muscular dystrophy (A), 1027
erythrocyte superoxide dismutase and

erythrocyte superoxide dismutase and Duchenne muscular dystrophy (A), 1048 identification of lymphocyte membrane defect in muscular dystrophies (A), 1027 mutation and lyonization in Duchenne muscular dystrophy (A), 1028 Myocardial infarction aspartate aminotransferase acty, and issenzyme proportions in human liver.

isoenzyme proportions in human liver tissue, 1971

creatine kinase isoenzyme MB increased in atients without myocardial infarct (SN), patie 1818

1818
creatine kinase isoenzyme variants in human
serum (SN), 832
high "currence of serum intermediate-density
lipoprotein in coronary heart disease
patients (A), 1024
predictive value studies of various diagnostic
criteria used in diagnosis of myocardial
infarct (A), 1046

criteria used in diagnosis of myocardiai infarct (A), 1046
RIA of serum myoglobin: evaln, and modn, of a commercial kit, its usefulness for detecting acute myocardial infarction (SN), 2047
serum myoglobin, CPK-MB and sean as indicators of myocardial infarction (A), 1046

specificity of CK MB isoenzyme for myocardial injury (L), 2206 Myocardium

Myocardium
micro method for detn. of superoxide
dismutase in serum and tissue: contents of
rat myocardium (A), 1002
Myoclonic disorders

detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction (SN), 376 Myoglobin

modn. of A ¹²⁵l myoglobin RIA for state detns.
(A), 999

RIA of serum myoglobin: evaln. and modn. of a commercial kit, its usefulness for detecting acute myocardial infarction (SN), 2047 serum myoglobin by RIA and early diagn of acute myocardial infarction (A), 999 N-Acetylneuraminic acid(s) See Sialic acids, Neuraminic acid

N-Acetylprocainamide N-Acetylprocainamide
homogeneous enzyme immunoassay for
N-acetylprocainamide in serum (A), 1055
NAD-pyrophosphorylase
porous silica gel as solid support for
immobilization of proteins. I.
NAD-pyrophosphorylase (A), 1034

National Reference System in Clinical

Chemistry Dr. Roy Barnett appointed chairman, NRSCC Council, 1658

NCCLS responds to recommendations of conference on a national reference system,

NCCLS NCCLS responds to recommendations of responds to recommendations of conference on a national reference system, 1294 president elect, 1658

Neocarzinostatin assay of an antitumor protein, neocarzinostatin, and its antibody by fluorescence polarization, 2139 Neonatal chemistry See Newborns, Pediatric chemistry

Nephelometry antigen excess detection using microprocessor directed nephelometer (A), 1009 method-specific variations in the calibration of

a new immunoglobulin std. suitable for use a new inimogroum std. suitame for use in nephelometry, 531 problems of laser nephelometry in human lysozyme assay (L), 176 rate nephelometric assay for human TBG (A),

Nephrotic syndrome posture and plasma composition (SN), 824 Nervous system disease gas-chromatog. detn. of polyol profiles in CSF,

1945
liquid-chromatog, detn. of serotonin in serum and plasma, 1509
Nervous-system disorders
liquid-chromatog, sepn. and fluorometry of biogenic amines in plasma, urine, and tissue (S), 1317

Netilmicin
RIA and radioenzymatic assay of a new
aminoglycoside antibiotic, netilmicin (SN),

Neural tube defects mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its

possible clin. usefulness, 1899 RIA of alpha-fetoprotein, with special ref. to iodination and purifn. techniques, 275 Neuraminic acid simultaneous detn. of sialic acid and protein in

erythrocyte membrane from diabetic patients (L), 1287

Neuroblastoma mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899 Neurogenic tumor

detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography, 122 Neurologic disorders

automated assay of γ-aminobutyric acid in human CSF, 256 Neutron activation analysis

detn. of Cr and Co in serum by neutron activn. anal. 303

anal. for Ni in plasma and urine by electrothermal at absorption spectrometry, with sample preparation by protein pptn. (SN), 1198

interlab. comparisons of N anal. in urine by atomic absorp. spectrometry, 862 Nicotine

gas-liquid chromatog, detn. of nicotine and cotinine in plasma, 50 Nicotinic acid

liquid-chromatography of free nicotinic acid and its metabolite, nicotinuric acid, in plasma and urine, 1740 Nicotinuric acid

Nicotinuric acid
ilquid-chromatography of free nicotinic acid
and its metabolite, nicotinuric acid, in
plasma and urine, 1740
Nonesterified fatty acids
negligible effects of nonesterified fatty acids
on serum thyroxine anal. by competitive
protein-binding radioassay on Sephadex and by RIA, 751 variations in plasma non-esterified fatty acid

concns. during glucose tolerance test (A),

1045 Norepinephrine 24-h fluctuations in plasma norepinephrine & epinephrine in third trimester pregnancy (A), 993 Normal values

See also Reference values

See also Reference values adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 albumin activation of urinary amylase as detnd. with the Du Pont aca (SN), 702 anal. for glutathione in blood by high-performance liquid chromatog. 1140 anal. for Ni in plasma and urine by electrothermal at. absorption spectrometry, with sample preparation by protein pptn. (SN), 1198

aspartate aminotransferase acty. and

aspartate aminotransierase acty, and isoenzyme proportions in human liver tissue, 1971 assay of vitamins D₂ and D₃, and 25-hydroxyvitamins D₂ and D₃ in human plasma by liquid chromatog. 287 ssociations with body weight of some chem. constituents in blood: epidemiologic ata,

automated assay of γ-aminobutyric acid in human CSF, 256 blood intermediary-metabolite and insulin concns. after overnight fast: reference ranges

for adults, and interrelations, 1568
continuous-flow detn. of bile acids in serum, and clin. application, 1150
detection and elimination of contaminations interfering with the detn. of Zn in plasma,

detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace, detn. of Cr and Co in serum by neutron activn.

anal. 303 detn. of 3-methoxy-4-hydroxyphenylpyruvic

deth. of 3-methoxy-4-hydroxyphenylpyruvic acid, 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylmandelic acid in urine by mass fragmentography, with ²H-labeled intern. stds. 2001 deth. of propionic acid and other short-chain

detn. of propionic acid and other short-chain fatty acids in serum, 800 detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass fragmentography, 122 direct micromethod for colorimetry of serum ornithine carbamoyltransferase acty., with use of a linear std. curve, 101 direct solid-phase ¹²⁵I RIA of serum cortisol, 1596.

double- and single-isotope enzymatic derivative methods compared for m

catecholamines in human plasma, 567 dual-column cation-exchange chromatog, method for β-aminoisobutyric acid and β-alanine in biol. samples (S), 1373 effect of posture of subject on ref. values (L),

electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 enzymic micro-assay for blood glutamine, 1730

enzymic micro-assay for blood glutamine, 1730 estn. of free triiodothyronine in serum: new method and its clin. relevance, 1891 excretion of X-prolyl dipeptidyl-aminopeptidase in urine as detud with a new fluorogenic substrate, 1163 free thyroxine in serum as estd. by polyacrylamide gel filtration, 652 hexosaminidase A in amniotic fluid of Tay-Sachs fetuses, 1131 individual character of varn. in time-series studies of healthy people. II. differences in values for clin. chem. analytes in serum amoust demographic groups. by are and sex. among demographic groups, by age and sex, 313

313 kinetics of the Beckman enzymic method for serum and urinary amylase, 762 liquid-chromatog, detn. of serotonin in serum and plasma, 1509

CLINICAL CHEMISTRY, Vol. 24, No. 12, 1978 2267

maleimide as inhibitor in measurement of erythrocyte glucose-6-phosphate dehydrogenase acty. 885 measurement of free and free-plus-peptide

hydroxyproline in plasma, 204
method for estimating glycosylated
hemoglobins; its application to evaln. of
diabetic patients, 1708

method for screening urinary steroids by gas

chromatog. 193
method-specific variations in the calibration of a new immunoglobulin std. suitable for use in nephelometry, 531 microestimation of adenosine deaminase acty in dried blood spots on filter paper, 591

modified erythrocyte uroporphyrinogen I synthase assay, and its clin. interpretation, 1751

neonatal ref. values of selected enzyme activities measured in plasma (A), 1010 activities measured in piasina (A), Total neonatal thyroxine screening by single-tube solid-phase RIA, 1755 normalized androgen ratio: index of serum free 17g-hydroxysteroid concn. 1500 normal values for urinary

178-hydroxysteroid conen. 1500
normal values for urinary
3-methoxy-4-hydroxymandelic acid in
children (L), 1853
"oncometer" for clin. measurement of colloid
osmotic pressure of plasma, 1586
one-tube micromethod for RIA of plasma
cortisol, 1954
p-nitrophenol-α-D-glucopyranoside as
substrate for measurement of maltase acty.
in semen, 208
practical RIA for thyroglobulin, 267
radioenzymatic assay of DOPA
(3,4-dihydroxyphenylalanine), 1927
RIA for urinary lysozyme in human serum
from leukemic patients, 2155
RIA of creatine kinase isoenzymes in human
serum: Isoenzyme MM, 414
RIA of creatine kinase isoenzymes in human
serum: Isoenzyme BM, 412
RIA of creatine kinase isoenzymes in human
serum: Isoenzyme BB, 422
RIA of serum myoglobin: evaln. and modn. of

serum: isoenzyme BB, 422 RIA of serum myoglobin: evaln. and modn. of a commercial kit, its usefulness for detecting acute myocardial infarction (SN), 2047 screening for urinary oligosaccharides: quant. proced. 669

proced. 669
sepn. and anal. of arylsulfatase isoenzymes in body fluids of man (S), 1305
serum estradiol-17\(\textit{\textit{a}}\) as detnd. by mass fragmentography and by RIA, 627
serum ionized Ca and corrected total Ca in borderline hyperparathyroidism, 19\(\textit{\textit{a}}\) care up prostate-specific acid phosphatase: development and validation of a specific RIA, 1915
simple deta of high urinary exception of

RIA, 1915
simple detn. of high urinary excretion of
5-hydroxyindole-3-acetic acid with ferric
chloride (SN), 149
simultaneous detn. of serum cholesterol in
high- and low-density lipoproteins with use
of heparin, Ca²⁺, and anion-exchange resin,

solid-phase RIA for vitamin B₁₂ in serum, with use of radioiodinated tyrosine methyl ester of vitamin B₁₂, 460 tartrate resistant acid phosphatase of human

serum: normal values and biochem. props, (A), 1048

trace elements in scalp-hair of persons with multiple sclerosis and of normal individuals,

1996
urinary polyamine excretion during the
menstrual cycle, 769
variance components of serum constituents in
healthy individuals, 212
Normetanephrine
differential fluorometric assay of
metanephrine and normetanephrine in urine
(A), 1042

quant. detn. of Norpace (Disopyramide) in serum by HPLC (A), 1007 Nortilidine

gas-chromatog. detn. of ng amts. of enantiomers of nortilidine, a main metabolite of tilidine, in biol. specimens, 692

Nortriptyline iortriptyline
detn. of therapeutic concns. of amitriptyline
and nortriptyline in serum using electron
impact mass fragmentography (A), 992
double-antibody enzyme immunoassay for
nortriptyline, 1590
effects of blood-collection tubes on plasma,
sera, and blood levels of amitriptyline and
nortriptyline (A), 1059
measurement of plasma nortriptyline concns.:
RIA and gas-chromatog. compared (SN),
2023

monitoring amitriptyline and nortriptyline by chem. ionization mass fragmentography (A),

RIA for nortriptyline (and other tricyclic

Occult blood

evaln. of Fecatest, a new guaiac test for occult blood in feces, 756 Occupational hazards

anal. for Ni in plasma and urine by electrothermal at. absorption spectrometry, with sample preparation by protein pptn. (SN), 1198

interlab. comparisons of N anal, in urine by atomic absorp, spectrometry, 862 Oligosaccharides

screening for urinary oligosaccharides: quant. proced. 669

screening for urinary oligosaccharides in a mentally handicapped population and patients with other diseases (SN), 714 Organic acids

automated metabolic profiling of org. acids in urine. I. description of methods, 1674 detn. of propionic acid and other short-chain

deth. of propionic acid and other short-chair fatty acids in serum, 800 quant. metabolic profiling based on gas chromatog. (R), 1663 sepn. of a number of urinary organic acids by high performance liq. chromatogr. (A), 1051

Ornithine carbamoyltransferase direct micromethod for colorimetry of serum ornithine carbamoyltransferase acty., with use of a linear std. curve, 101

Osmotic pressure
"oncometer" for clin. measurement of colloid
osmotic pressure of plasma, 1586

Oxidoreductases radial diffusion assay of NAD- and

NADP-dependent oxidoreductases (SN),

2-Oxoglutarate detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

Pancreatic disease

fractionating \(\gamma\)-glutamyltransferase by electrophoresis on cellulose acetate (SN), 502

Pancreatic profiling practical approach to pancreatic profiling with centrifugal analyzer (A), 1047

Pancreatitis

acute pancreatitis, hyperlipemia, and normal amylase, 815 biochem. changes in a porcine model of acute pancreatitis, 881

simple assay technique for renal clearance of amylase-creatinine ratio with the Du Pont 'aca' (A), 1036

Parathyrin biochem. changes in a porcine model of acute pancreatitis, 881 evaln. of commercially available method for

evaln. of commercially available method for parathyroid hormone; assocn. of values with total and ionized calcium (A), 993 parathyrin RIA: diagnostic utility of antisera to carboxyl-terminal fragments of human parathyrin, 451 reduced-volume RIAs for parathyrin and calcitonin in serum, for pediatric, small-animal studies (SN), 1833 Parkinsonism liquid-chromatog, detn. of serotonin in serum and plasma, 1599 Pediatric chemistry
See also Fetal status, Inherited disorders, Newborns

Newborns
acty. of acid phosphatase in infancy and childhood (L), 2207
amniotic fluid total estriol, DHEA.

cmidnood (L), 2201
amniotic fluid total estriol, DHEA,
16a-OH-DHEA, cortisol and L/S ratio in
late pregnancy (A), 1043
automated enzymic fluorometric assays for
blood glucose, lactate, pyruvate, alanine,
glyc erol, and 3-hydroxybutyrate, 1724
bilirubin-protein interactions monitored by
difference spectroscopy, 1491
biochem, properties of tartrate-resistant acid
phosphatase in serum of adults and
children, 1105
chem. and immunochem. measurement of
total Fe-binding capacity compared, 1788
comparison of amniotic fluid tests for fetal
lung maturity (A), 1014
comparison of modified ion-exchange and
enzymatic methods for detng, plasma
ammonia in pediatric patients (A), 1012
detern. of pyruvate oxidn. rate and citric acid
cycle acty, in intact human leukocytes and
fibroblasts, 200

fibroblasts, 200

detn. of 3-methoxy-4-hydroxyphenylpyruvic acid, 3,4-dihydroxyphenylethylene glycol, and 3,4-dihydroxyphenylmandelic acid in urine by mass fragmentography, with ²H-labeled intern. stds. 2001 detn. of propionic acid and other short-chain fatty acids in serum, 800 different approach to quality control material particularly applicable to pediatric lab. (A), 1021

enzymic micro-assay for clood glutamine, 1730 evaln. of RIA method for detg. urinary estriol

during pregnancy and relation with fetal lung maturity (A), 1041 24-h fluctuations in plasma norepinephrine &

epinephrine in third trimester pregnancy (A), 993

(A), 993 high-performance liquid-chromatog, assay for chloramphenicol in biol. fluids, 778 immobilized-enzyme membrane sandwich reactor used in automated micro-assay of plasma uric acid (SN), 2033

improved cortisol metabolite isolation from urine of neonates, 1158 improved enzymatic assay of chloramphenicol,

interlab. comparison: erythrocyte protoporphyrin analyses, 2135 iron status of breast- and formula-fed infants with and without supplemental iron in first 12 months of life (A), 1011

lipoprotein cholesterol in the serum of children, as detnd. independently by two different methods (SN), 157 liquid-chromatog. anal. for salicylate in serum, 1543

liquid-chromatog, detn. of theophylline in plasma (SN), 357

plasma (SN), 357
manual and centrifugal analyzer detn. of
cholesterol and triglycerides with single-vial
enzymic reagents (SN), 2026
method for predicting creatinine clearance in
children, 1167
microestimation of adenosine deaminase acty.
in dried blood spots on filter paper, 591
modified micro-scale enzymic method for
plasma NH₃ in newborns, pediatric patients;
comparison with modified cation-exchange
procedure (SN), 2172
neonatal changes in erythrocyte porphyrin
concns. (A), 1010
neonatal hypothyroidism screening using
serum specimen and T4 by RIA in

neonatal hypothyroidism screening using serum specimen and T4 by RIA in community hospital (A), 1011 neonatal hypothyroid screenother sources of error, and their elimination (L), 836 neonatal ref. values of selected enzyme activities measured in plasma (A), 1010 neonatal thyroxine screening by single-tube solid-phase RIA, 1755 neonatal TSH RIA using dried blood spotted on filter paper (A), 1038 normal values for urinary 3-methoxy-4-hydroxymandelic acid in

3-methoxy-4-hydroxymandelic acid in children (L), 1853 one-tube micromethod for RIA of plasma cortisol, 1954 protein electrophoresis of pediatric CSF using

protein electrophoresis of pediatric CSF using micro samples (A), 1011 radialimmunodiffusion and fluoroimmunoassay of immunoglobulins in cord blood and newborn serum (A), 1016 reduced-volume RIAs for parathyrin and calcitonin in serum, for pediatric, small-animal studies (SN), 1833 screening the newborn, including congenital hypothyroidism (A), 967 simultaneous liquid-chromatog, detn. of 12 common sedatives and hypotics in serum.

common sedatives and hypnotics in serum, 657

sources of error in thyroxine screening of neonates by RIA of blood on blotter paper (A), 1011

(A), 1011 three methods to evaluate fetal lung maturity compared and correlated to the clin. outcome of infant (A), 1010 use of T3-test (indirect measurement of TBG)

in neonatal screening for hypothyroidism Pediatric diagnosis

e Fetal status, Inherited disorders

Performance See Interlaboratory performance, Variation, Pharmacokinetics

anal. for 1,3-bis(2-chloroethyl)-1-nitrosoures by chem. ionization mass spectrometry, 45 imultaneous gas-chromatog. anal. for diazepam and its major metabolite,

desmethyldiazepam, with double internal stdn. (SN), 1838 Phenobarbital

automatic loading of a centrifugal analyzer for enzyme immunoassays (L), 1285

emergency gas-chromatog, assay of phenobarbital and phenytoin, liquid-chromatog, assay of theophylline (SN), i630

enolic acids

thin-layer chromatog. of phenolic acids with use of toluene instead of benzene (L), 836 Phenotyping

nenotyping
hyperlipoproteinemia phenotype detn. by
agarose gel electrophoresis updated, 227
programmable calculator used in processing
and interpreting serum cholinesterase
phenotypes, 223

Phenylalanine enzymatic detn. of phenylalanine and tyrosine

(A), 1017 evaln. of commercially . available phenylalanine ammonia lyase for the enzymatic detn. of phenylalanine and tyrosine (A), 1016

tyrosine (A), 1016
Phenylalanine ammonia lyase
evaln. of commercially . available
phenylalanine ammonia lyase for the
enzymatic detn. of phenylalanine and
tyrosine (A), 1016
Phenytair

Phenytoin
comparative detn. of phenytoin by
spectrophotometry, GC, LC, enzy,
immunoassay, and RIA (SN), 710
emergency gas-chromatog, assay of
phenobarbital and phenytoin,

phenobarbital and phenytom, liquid-chromatog. assay of theophylline (SN), 1630

parts necessary for phenytoin assay no longer sold (L), 174 Pheochromocytoma

mass-fragmentographic detn. of catecholamine metabolites in amniotic fluid and its possible clin. usefulness, 1899

simple spectrophotometric method for disopyramide phosphate (Norpace^R measurement in biol. fluids (A), 991

measurement in 1001. Itulias (A), 391
Phosphatidylglycerol
effect of phosphatidylglycerol,
phosphatidylinositol and phosphatidylserine
on microviscosity detd. by DPH
fluorescence polarization of dispersions of leothin and sphingomyelin (A), 1045 simultaneous detn. of phosphatidylglycerol and the leothhn:sphingomyelin ratio in amniotic fluid, 1144 Phosphatidylinositol

nospnatidylmositol effect of phosphatidylglycerol, phosphatidylinositol and phosphatidylserine on microviscosity detd. by DPH fluorescence polarization of dispersions of

luorescence polarization of dispersion lecithin and sphingomyelin (A), 1045

Phosphatidylserine effect of phosphatidylglycerol, phosphatidylinositol and phosphatidy on microviscosity detd. by DPH fluorescence polarization of dispersion lecithin and sphingomyelin (A), 1045

Phospholipids natidylserine

Phospholipids

Mo in the detn. of phospholipids without acid digestion (L), 722 totally enzymatic method for assay of phospholipids (A), 1019

Phosphorius

Phosphorus
applications of a new instrument, the Potentiophotometer, 92 direct single-reagent phosphorus method: problems of interference and standn. (A), 1020

Photochemotherapy detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer chromatog. 1155

PKU See Phenylketonuria Placental lactogen polyethylene glycol in RIA of placental lactogen, 1767

Platelets mechanized micro-detn. of protein in platelet-pellet sonicates (SN), 2031 Platinum

Platinum atomic absorp, spectrophotometry of free circulating Pt species in plasma derived from cis-dichlorodiammineplatinum(II), 877 detn. of Pt and Ga by flameless atomic absorption spectrophotometry (A), 1058 p-Nitrophenol-a-D-glucopyranoside p-nitrophenol-a-D-glucopyranoside as substrate for measurement of maltase acty, in semen, 208

Polarized-light microscopy quant. cytochem.: the basis of sensitive bioassays for comparison of bio- and immuno-reactive hormone values (S), 1399 Polyamines

antibodies to polyamines: some overlooked refs. (L), 523

urinary polyamine excretion during the menstrual cycle, 769 Polyols

gas-chromatog. detn. of polyol profiles in CSF, 545

ssociations with body weight of some chem. constituents in blood: epidemiologic data, 772 Population studies Porphyria

orphyria
hydroxy-hemopyrrolenone, not kryptopyrrole,
in the urine of schizophrenics and
porphyrics (L), 2069
low-cost uroporphyrinogen I synthase
screening for acute intermittent porphyria

(L), 730 modified erythrocyte uroporphyrinogen I synthase assay, and its clin. interpretation, 1751

Potassium

otassium
acute heat exposure, submaximal exercise, and
increases in plasma K in unacclimatized
man (A), 1030
anal. for K in human erythrocytes by use of a
standard-additions method and an
ion-selective electrode, 635
evaln. of the Space Stat 30 sodium/potassium
ion analyzer (L), 1856

Pregnancy
extn. of Kober chromogen into
tetrachloroethane containing trichloroacetic acid in detn. of urinary estrogens during pregnancy (L), 2217 24-h fluctuations in plasma norepinephrine &

epinephrine in third trimester pregnancy (A), 993

modn. of choriogonadotropin beta-subunit RIA for detn. of urinary

choriogonadotropin, 1958
Pregnancy, menstrual cycle
method for screening urinary steroids by gas chromatog. 193 Prenatal diagnosis

prenatal diagnosis and somatic cell hybridization studies of genetic metabolic diseases (A), 967 RIA of alpha-fetoprotein, with special ref. to

iodination and purifn. techniques, 275 Procainamide homogeneous enzyme immunos

procainamide in serum (A), 1056 Procaine

chloroprocaine and procaine in plasma measured by flame ionization gas-liquid chromatog. 1599 Proficiency
See Interlaboratory performance

Proficiency testing comparison of interlab. results from blood Pb with results from definitive method (A), 1032

lab. standn. in an internat. study: the Kaunas-Rotterdam Intervention Study (KRIS), 1126

(KRIS), 1126 results of drug monitoring proficiency testing program conducted by CDC (A), 1032 some factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504

Progesterone improved enzyme immunoassay for progesterone in human plasma, 2099 use of vertical rotor to facilitate estrogen and progesterone receptor anal. (SN), 1609

Progesterone receptor ann. (514), 1009
Progesterone receptor
simplified Scatchard plot assay for
progesterone receptor in breast cancer:
comparison with single-point and multipoint assav, 1170

Prognostic aid
plasma Ca, Cu, Mg, and Zn concns. in patients
with alcohol withdrawal syndrome, 1553 Prolactin

inter-batch quality differences in purified human prolactin (SN), 941 Propionic acid

detn. of propionic acid and other short-chain fatty acids in serum, 800

Propranolol
fluorometry of propranolol and its glucuronide: applicability, specificity, and limitations (L), 169

limitations (L), 169 homogeneous enzyme immunoassay for propranolo! in serum (A), 1056 quant. GC-MS of propranolo!, key to improved understanding of relationship between plasma concns. and dose (A), 991

Prostatic disease purifin, of human prostatic acid phosphatase by affinity chromatography and isoelectric focusing. I. 466 Proteins

anal. for CSF proteins by isoelectric focusing on polyacrylamide gel: method aspects and normal values, with special ref. to the alk.

normal values, with special ref. to the aik. region, 1134 applications of a new instrument, the Potentiophotometer, 92 bilirubin-protein interactions monitored by

difference spectroscopy, 1491 characterization of myeloma protein by isoelectric focusing-immunofixation (A),

comparison of immunoelectrophoresis with high resolution serum protein electrophoresis for detection of monoclonal proteins (A), 1026

evelopment and clin. evaln. of novel method for simultaneous anal. of cryoglobulin and cryofibrinogen (A), 1026 diminished membrane protein mobility in

lymphocytes from patients and carriers of Becker's muscular dystrophy (A), 1027

Becker's muscular dystrophy (A), 1027 effect of sample prepn. on protein patterns in polyacrylamide gels (A), 1014 enhanced inhibn. of protein synthesis and enzyme activity by aged anti-neoplastic platinum complexes, cis- and trans-dichlorodiammine platinum (A), 1004 evaln. of EDTA-chelated biuret reagent containing glycine and NaCl (L), 513 mechanized micro-detn. of protein in platelet-pellet sonicates (SN), 2031 porous silica gel as solid support for

piatenet-peinet sonicates (SN), 2001 porous silica gel as solid support for immobilization of proteins. I. NAD-pyrophosphorylase (A), 1034 porous silica gel as solid support for immobilization of proteins. II. goat anti-rabbit serum as second antibody in angiotensin I RIA (A), 1042

angiotensin FAR (A), 1042 proteinuria: accuracy and precision of lab. diagnosis by dip-stick anal. 1934 reactivity of Coomassie Brilliant Blue G-250 with human albumin and globulins (A), 1026 report format for serum proteins (L), 728 simultaneous detn. of sialic acid and protein in erythrocyte membrane from diabetic

erythrocyte membrane from diabetic patients (L), 1287
source of error in CSF protein detn. with the Du Pont aca (L), 173
specific proteins in protein-calorie malnutrition in Kivu, Africa (A), 1027
standardization of CSF protein detd. with the Du Pont aca (L), 1852
standn. of the Coomassie Blue method for CSF proteins 1021

CSF proteins, 1931 Prothrombin

RIA of human prothrombin (A), 1053 simultaneous coagulation testing: prothrombin time detns. with centrifugal analyzer (A), 1053

Protoporphyrin fluorometry of erythrocyte protoporphyrin in blood: direct (hematofluorometric) and indirect (extraction) methods compared, 1515

interlab. comparison: erythrocyte protoporphyrin analyses, 2135 ultramicro erythrocyte protoporphyrin detn. using solvent extraction without sample transfer (A), 1058

Proximal tubular dysfunction serum and urinary lysozyme acty. after kidney transplan: influence of graft function and therapy with azathioprine, 74

Psoriasis detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer

chromatog. 1155

Psychotherapeutic drugs
unwanted effects of psychotherapeutic drugs (A), 987

Pyruvate yruvate
anal. for lactate and pyruvate with the LKB
8600 Reaction Rate Analyzer (L), 512
automated enzymic fluorometric assays for
blood glucose, lactate, pyruvate, alanine,
glycerol, and 3-hydroxybutyrate, 1724
direct assays of lactate, pyruvate,
β-hydroxybutyrate, and acetoacetate with a

centrif. analyzer, 475 Pyruvate oxidation

detern. of pyruvate oxidn. rate and citric acid cycle acty. in intact human leukocytes and fibroblasts, 200

Guality control
additive, multiplicative, and mixed anal.
errors, 1895
anal. performence and comparability of detn.
of triglycerides by 12 Lipid Research Clinic
laboratories, 330
application of fictitious patient data for

monitoring instrument and operational unit function in a clin. lab. (A), 1049 aqueous primary standard for use with the Technicon SMA 6/60 (SN), 1204

aspartate aminotransferase acty, of some commercially available control sera, measured with and without added pyridoxal-5-phosphate (L), 841 design of statistical quality control procedure to achieve specified std. of anal. performance (A), 1049

performance (A), 1049 detn. of optimum (absolute minimum) vial-to-vial variations in four commercial and one special control serum: implications for proficiency testing and intralab. quality control (A), 1049

development and evaln. of quality control serum containing low levels of glucose (A),

development and use of internal assays and adequacy tests for enzyme reagents (A), 1048

different approach to quality control material particularly applicable to pediatric lab. (A), 1021 H₂O-sol, cholesterol deriv, for use in

augmenting serum control materials, 1924 lab. standn. in an internat. study: the Kaunas-Rotterdam Intervention Study (KRIS), 1126

surement of cholesterol in serum: interlab study of factors influencing accuracy and precision (A), 1046 natal blood quality control program (L),

performance evaln. of multi-channel analyzers use of linearly-related survey specimens,

40/3
performance requirements of ref. methods and
materials (A), 1040
provisional recommendation on quality control
in clin. chem. part 5. external quality
control (SR), 1213
some factors affecting the utility of bovine
blood as a control material in Pb-screening
programs (SN), 504
stable blood products for pHblood-gas qual.
c. ptrol. 793

stanie notou products for prinode-gas quar c ntrol, 793 turbidity of commercial control sera and effect on anal. variance (A), 1021 use of ethylene glycol based quality control materials (A), 1050

Quinidine
detn. of quinidine by HPLC (A), 1007
detn. of quinidine by liquid chromatog. 299
liquid chromatog. of quinidine in plasma, with
use of microparticulate silica column (SN), 2166 specificity of quinidine detn. methods (L),

2065

detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer chromatog. 1155 Radial diffusion assay radial diffusion assay

NADP-dependent oxidoreductases (SN),

Radial immunodiffusion

electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human

apolipoprotein B, 280 two immunofluorescent methods compared with a radial immunodiffusion method for asurement of serum immunoglobulins,

Radioassay Chemists' Guide to Radioassay Products, 2nd ed. (SR), 1221

competitive protein-binding radioassay of urinary cortisol (A), 994

effect of storage on apparent concn. of folate in erythrocytes, as measured by competitive protein binding radioassay, 663

emergency procedure for digoxin radioassay,

1904 evaln. of a radiometric detn. of total and unsaturated Fe-binding capacities and serum Fe (SN), 374 fluorescence quenching immunoassay for IgM

(A), 1015

(A), 1015
human saliva as binder in the serum vitamin
B₁₂ radioassay system (A), 1054
results for serum vs. plasma in 15 selected
radioassays (SN), 137
solid-phase radioassay for thyroxine binding
globulin (A), 1038
source of error in detn. of erythrocyte folate
by competitive binding radioassay (L), 388
troubleshooting radioligand assays (SR), 1275
tadioenzymatic assay

troubleshooting raniongain analys leavy, Radioenzymatic assay radioenzymatic assay of DOPA (3,4-dihydroxyphenylalanine), 1927 RIA and radioenzymatic assay of a new aminoglycoside antibiotic, netilmicin (SN),

Radioimmunoassay

See also specific analyte of interest

adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 alpha fetoprotein RIA: isolation of alpha fetoprotein in milligram quantities from human cord serum (A), 999 anal. of RIA data: polynomial regression (L),

automated measurement of serum thyroxine with the "ARIA II," compared with competitive protein binding and RIA (SN), 342

bovine serum albumin interference in RIA (L), 1857 Chemists' Guide to Radioassay Products, 2nd

ed. (SR), 1221

clin. evaln. of serum ferritin by RIA (A), 998 clin. lab. evaln. of serum digoxin and cortisol by RIA procedures on the CONCEPT-4 (A),

commercial. RIA kit evaln. with assay-conditional Scatchard plots (A), 1016 comparison of RIA enzyme immunoassay, HPLC and U.V. spectrophotometry for the deta. of serum theophylline (A), 1057 counterimmunoelectrophoresis in deta. of prostatic acid phosphatase in serum (SN), 140 cross reactivities of the conditions of

cross reactivity of digitoxin and spironolactone in two RIAs for serum digoxin (SN), 706 current status of RIA (A), 965

detection of methaqualone in human urine by RIA and GLC after a therapeutic dose (L),

1425
detn. of a tricyclic antidepressant,
clomipramine (Anafranil), in plasma by a
specific RIA procedure, 36
detn. of urinary estriol by RIA (A), 1043
direct, nonchromatog, RIA of aldosterone:
validation of a kit, and age-related changes
in conens. in plasma, 1531
direct solid-phase ¹²⁵I RIA of serum cortisol,
1595

1996 electroimmunoassay, RIA, and radial immunodiffusion assay evaluated for human apolipoprotein B, 280 evaln. of a new RIA for carcinoembryonic antigen (L), 727

evaln. of homogeneous enzyme immunoassay of serum thyroxine with use of bichromatic anal. (SN), 165

anal. (SN), 165
evaln. of new empirical equation for RIA data
reduction (A), 1016
evaln. of RIA method for detg. urinary estriol
during pregnancy and relation with fetal
lung maturity (A), 1041
faster RIA of angiotensin I at 37 °C, 115

ferritin RIA evaln.: abnormalities in Scatchard plots (A), 998

free thyroxine detn. direct RIA of serum tree thyroxine detn. direct KIA of serum dialysates using com. available anti-serum and polyethylene glycol sepn. (A), 1040 gentamicin by RIA: evaln. of iodinated, solid-phase procedure for serum gentamicin (A), 1059

homogeneous immunoassay for isoenzymes of aspartate transaminase: method evaln. and

aspartate transaminase: method evaln. and comparison (A), 990 human choriogonadotropin: results compared for two beta-subunit RIA kits and radioreceptor kit (A), 1042 improved iodination of peptides for RIA and membrane radioreceptor assay, 796 interfe-zence of nonconjugated estriol metabolite in direct RIA of free serum estriol (A) 1041

estriol (A), 1041 125I-RIA for methaqualone and its metabolites

1-TAIA for methaqualone and its metabolites in urine (A), 1000 1291-RIA for unconjugated estriol in serum of pregnant women, 1100 liq, solid phase RIA system for thyroxine (A), 1040

easurement of plasma nortriptyline concns.: RIA and gas-chromatog. compared (SN),

2023
measurement of three aminoglycoside
antibiotics with a single RIA system, 1734
microencapsulation of antibody for use in RIA
for thyroxine and digoxin (A), 1040
micro-scale method for liquid scintillation
counting, applicable to RIA of steroids and
substances of comparable rel. mol. mass
(SN). 1193

(SN), 1193 modn. of a ¹²⁵I myoglobin RIA for state detns. (A), 999 modn. of choriogonadotropin beta-subunit

modn. of choriogonadotropin beta-subunit RIA for detn. of urinary choriogonadotropin, 1958 negligible effects of nonesterified fatty acids on serum thyroxine anal. by competitive protein-binding radioassay on Sephadex and by RIA, 751 neonatal hypothyroidism screening using serum specimen and T4 by RIA in community hospital (A), 1011

neonatal thyroxine screening by single-tube solid-phase RIA, 1755 neonatal TSH RIA using dried blood spotted on filter paper (A), 1038 one-tube micromethod for RIA of plasma

cortisol, 1954 parathyrin RIA: diagnostic utility of antisera

parathyrin RIA: diagnostic utility of antisera to carboxyl-terminal fragments of human parathyrin, 451 polyethylene glycol in RIA of placental lactogen, 1767 porous silica gel as solid support for immobilization of proteins. II. goat anti-rabbit serum as second antibody in Angiotensin i RIA (A), 1042 practical RIA for thyroglobulin, 267 prepn. of ligand-free serum for RIA by adsorption on activated charcoal (SN), 362 programmable desk-top calculator used for statistical quality control of RIAs, 1121 PTH RIA, methodologic & clin. aspects (A), 993

993
radioimmunological screening test for anti-thyroglobulin autoantibodies, 272
reduced-volume RIAs for parathyrin and calcitonin in serum, for pediatric, small-animal studies (SN), 1833
RIA and radioenzymatic assay of a new aminoglycoside antibiotic, netilmicin (SN), 717

RIA detn. of thyroxine and triiodothyronine in rats (A), 1052

rats (A), 1052 RIA equation derived (L), 1284 RIA for nortriptyline (and other tricyclic antidepressants) in plasma, 549 RIA for serum ferritin (A), 998

RIA for serum ferritin (A), 998
RIA for urinary albumin, 1464
RIA for urinary lysozyme in human serum
from leukemic patients, 2155
RIA for urine albumin (A), 999
RIA of alpha-fetoprotein, with special ref. to
iodination and purifi. techniques, 275
RIA of calcitonin in the plasma of rhesus
monkey and man, 595

RIA of creatine kinase isoenzymes in human serum: Isoenzyme MM, 414 RIA of creatine kinase isoenzymes in human serum: Isoenzyme BB, 422

RIA of creatine kinase isoenzymes in human serum: Isoenzyme BB, 422
RIA of estrone, estradiol, and progesterone in bovine fat and muscle (A), 1052
RIA of human prothrombin (A), 1053
RIA of methaqualone in human urine compared with chromatog. 1473
RIA of platelet factor 4 and 4 6 3-thromboglobulin (A), 1053
RIA of serum estradiol-17β (A), 1041
RIA of serum myoglobin: evaln. and modn. of a commercial kit, its usefulness for detecting acute myocardial infarction (SN), 2047
RIA of thyroxine in canine serum (A), 1014
role of RIA for intact and carboxyl (C)-terminal immunoreactive parathyroid hormone in patient evaln (A), 1013
sequential RIA for serum thyrotropin (A), 1039
serum estradiol-17β as detnd. by mass

1039
serum estradiol-17β as detnd. by mass
fragmentography and by RIA, 627
serum myoglobin by RIA and early diagnosis
of acute myocardial infarction (A), 999
serum prostate-specific acid phosphatase:

serum prostate-specific acid phosphatase: development and validation of a specific RIA, 1915 simple RIA of cortisol in plasma, 1468 solid phase RIA for detection of conjugated bile acids in human serum (A), 1000 solid phase RIA for hg. microglobulin: sensitive index for renal allograft evaln. (A), 995 solid-phase RIA for morphine, with use of an affinity-purified morphine antibody (SN), 339

solid-phase RIA for T4 in blood on filter paper

cards (A), 1038 solid-phase RIA for vitamin B₁₂ in serum, with use of radioiodinated tyrosine methyl ester

of vitamin B₁₂, 460 sources of error in thyroxine screening of neonates by RIA of blood on blotter paper

neonates by RIA of blood on blotter paper (A), 1011
specific ¹²⁵I RIA for cholylglycine (A), 999
spurious underestn. of results for digoxin RIA
with a commercial kit (SN), 494
T4 by RIA: critical evaln. of six commercially
available kits (A), 1039
the "Southmead System," a simple,
fully-automated, continuous-flow system for
immunoassays [appendix: application to
serum thyroxine RIA], 571
three radioligands, Se-75, 1-125, and Tritium,
compared in RIA of methotrexate, 1534
trace binding in digoxin RIA by use of
¹²⁵I-labeled 3-O-succinyl-digoxigenin:
relation of thyroxine conen. to binding (L),

relation of thyroxine concn. to binding (L),

two-purpose antiserum for RIA (L), 837 validation of single RIA system for measurement of three aminoglycoside antibiotics (A), 992

variability among commercially available digoxin RIA kits in cross reactivity to dihydrodigoxin (SN), 155

enzymatic assay for detg. free and total cholesterol in tissue, 433 flameless atomic absorption spectrophotometric detn. of Mn in rat brain and other tissues, 471 simplified two-step column-chromatog. detn.

of taurine in urine, 321

Reaction kinetics evaln. of a kinetic method for simultaneous detn. of conj. and unconj. bilirubins, 1700 kinetics of reactions of unconj. and conj. bilirubins with p-diazobenzenesulfonic acid. Reaction mechanisms

kinetics of reactions of unconj. and conj.
bilirubins with p-diazobenzenesulfonic acid,

1690 Receptor analysis

use of vertical rotor to facilitate estrogen and progesterone receptor anal. (SN), 1609
Reference materials

See also Standard Reference Materials albumin std. ref. material, 399 biochem. properties of tartrate-resistant acid phosphatase in serum of adults and children, 1105

conf. on a natl. understanding for the development of ref. materials and methods development of ref. materials and methods for clin. chem., proceedings published, 1433 evaln. of human serum matrix ref. material for glucose (A), 1050 interlab. study of measurement of aspartate aminotransferase acty. with use of purified

enzyme, 916

enzyme, 916 melting-point-of-Ga apparatus for thermometer calibration (S), 1331 method-specific variations in the calibration of a new immunoglobulin std. suitable for use

in nephelometry, 531
Reference methods
blood urea N detn. in protein-free filtrate with urease:glutamate dehydrogenase (A), 1018 comparison of selected cholesterol colorimetric

comparison of selected cholesterol colorimetric and enzymatic reference methods (A), 1046 conf. on a natl. understanding for the development of ref. materials and methods for clin. chem., proceedings published, 1433 development of candidate urea ref. method (A), 997

(A), 997
development of reference method for detn. of
Na in blood serum (A), 1030
optimization of methods for aspartate
aminotransferase and alanine
aminotransferase, 58
performance requirements of ref. methods and
materials (A), 1040
serum estradiol-17\(\beta\) as detnd. by mass
fragmentography and by RIA, 627
serum uric acid detnd. by reversed-phase
liquid chromatog, with spectrophotometric
detection, 536
Reference values
See also Normal values

See also Normal values
detn. of a trivariate ref. region for free
thyroxine index, free triudothyronine index,
and thyrotropin from results on middle-aged
women, 1744

measurement of free Ca ion in capillary blood and serum, 1545

Reflection densitometry multilayer film elements for clin. anal.: general concepts (S), 1335

multilayer film elements for clin. anal.: applications to representative chem. detns. (S), 1343

Renal allograft evaluation solid phase RIA for β₂ microglobulin: sensitive index for renal allograft evalu. (A), 995 Renal clearance

comparison of reults obtained for amylase clearance and amylase creatinine clearance ratio by Somogyi and amylochrome methods

simple assay technique for renal clearance of amylase-creatinine ratio with the Du Pont 'aca' (A), 1036

Renal diseas

See also Kidney disease creatine kinase isoenzyme BB in the serum of renal-disease patients, distinct from an albumin-like artifact (L), 1286

serum and urinary lysozyme acty, after kidney transplan.: influence of graft function and therapy with azathioprine, 74

Renin
effect of temp. on plasma renin samples (SN), faster RIA of angiotensin I at 37 °C, 115

creased renin concn. in plasma and amniotic fluid during storage (SN), 933

role of renin profiling in the diagnosis and treatment of hypertension (A), 980 should blood samples for assay of plasma renin acty. be chilled? (SN), 2042 Respiratory distress syndrome See Amniotic fluid Reticuloendotheliosis

tartrate-resistant (band 5) acid phosphatase acty. measured by electrophoresis on acrylamide gel, 309

simultaneous detn. of retinol and retinyl esters in serum or plasma by reversed-phase liquid chromatog. 1920 Retinyl esters

simultaneous detn. of retinol and retinyl esters in serum or plasma by reversed-phase liquid chromatog. 1920

Reviewers invited reviewers for 1978, 2220

Rheumatoid factor evaln. of Hynson, Westcott, and Dunning Rheumatoid Factor Macro-Vue Card Test (A), 1014

RIA Guide RIA guide, 1294 Salicylate

spectrofluorometric assay of salicylate metabolites in serum and urine (A), 1059 Salicylic acid

liquid-chromatog, anal. for salicylate in serum, 1543 Saliva

aliva adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 human saliva as binder in the serum vitamin B₁₂ radioassay system (A), 1054 micro extractive alkylation procedure for gas chromatog, meas. of theophylline in serum and saliva using N detector (A), 1057

and sanva using N detector (AA, 1057) micro-scale extractive alkylation procedure for gas-chromatog, measurement of theophylline in serum and saliva, with use of a N detector, 1458 prepn. of saliva samples for immunochemical

detns. of immunoglobulins and for assay of lysozyme (L), 1421

Sample handling detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace,

Spectrophilis 1485
N-ethylmaleimide prevents destruction of corticotropin in plasma (SN), 826 Sample preparation

ample preparation
another source of contamination from
blood-sample containers (L), 2063
blood-collecting tube as a contamination
source in vitamin E fluorometry (L), 2073
effect of storage on apparent concn. of folate

effect of storage on apparent conc. of rotate in erythrocytes, as measured by competitive protein binding radioassay, 663 evaln. of improved serum separator tube for clin. chem. detns. (A), 1019 evaln. of improved Vacutainer Tube for trace

metals and routine clin. chem. detns. (A),

1019
evaln. of "Sure-Sep II," a device for better separating serum and plasma (L), 1426 new microprocessor-controlled device for automatic extn. and conen. of selected components by physiol. fluids (A), 1009
ethility of corps extraorilating days in place of the control of the stability of some antiepileptic drugs in plasma (L), 722

Schizophrenia

hemopyrrole and kryptopyrrole absent from urine of schizophrenics and normal persons,

hydroxy-hemopyrrolenone, not kryptopyrrole, nydroxy-nemopyrrolenone, not kryptopyrrole, in the urine of schizophrenics and porphyrics (L), 2069 recent genetic and biochem. approaches to schizophrenia (A), 985 sensitive gas-chromatog, detn. of fluphenazine

in plasma, 41
Screening
See also Toxicology

See also Toxicology adrenal status assessed by direct RIA of cortisol in whole or parotid saliva, 1460 anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 1182 comprehensive screen for detn. of drugs of misuse in clin. lab. I. tricyclics (A), 1030 counteringunoselectrophyresis in detn. of

counterimmunoelectrophoresis in detn. of prostatic acid phosphatase in serum (SN), 140

drug screening by enzyme immunoassay with American Monitor KDA (A), 1031 drug screening by enzyme immunoassay with the American Monitor KDA (SN), 1823 evaln. of fluorescence screening test for

galactosemia (galactose-1-phosphate uridylyltransferase, Gal-PUT deficiency (A),

Hb electrophoresis at alkaline pH on agarose gels (SN), 936

homogeneous enzyme immunoassay for cannabinoids in urine, 95 improved enzyme immunoassay for

improved enzyme immunoassay for progesterone in human plasma, 2099 improved radiochem. assay for carnitine and its derivs. in plasma and tissue extracts, 32 interlab. comparison: erythrocyte protoporphyrin analyses, 2135 lipoprotein cholesterol in the serum of children, as detnd. independently by two different methods (SN), 157 low-cost uroporphyrinogen 1 synthase screening for acute intermittent porphyria (LL, 730).

maleimide as inhibitor in measurement of

erythrocyte glucose-6-phosphate dehydrogenase acty. 885 more economical use of chromatog, plates for

drug screening (L), 171

drug screening (L), 171
neonatal thyroxine screening by single-tube
solid-phase RIA, 1755
non-chromatog, screening test for
hyperprolinemia (SN), 2178
performance of protein, LDH, and alkaline
phosphatase electrophoresis as part of
hospital admission screen (A), 1027
polystyrene tube immunoradiometric assay for
humane, fedororatin use for many

human a₁-fetoprotein, use for mas screening, 2158 radial diffusion assay of NAD- and

NADP-dependent oxidoreductases (SN), 2176

anti-thyroglobulin autoantibodies, 272 screening for urinary oligosaccharides: quant. proced, 669

proced. 669
simultaneous detection and quantitation of
drugs commonly involved in
self-administered overdoses, 804
simultaneous liquid-chromatog, detn. of 12
common sedatives and hypnotics in serum,
657

ome factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504

Selected methods meas. of Cl in sweat with the Cl-selective electrode (SM), 2050 Selective-ion electrode

measurement of Cl in sweat by use of a selective electrode and strip-chart recorder (SN), 381

Septicemia septicemia detected by the "shot-gun" method for assaying CK isoenzyme MB in serum (L), 2064

Serotonin liquid-chromatog. detn. of serotonin in serum and plasma, 1509

possible rationale for neurobehavioral effects of catecholamine-related

of catecholamine-related tetrahydroisoquinolines: regional alterations in brain serotonin and dopamine (A), 395
Sex- and age-related effects assessing serum triiodothyronine concns., independent of subject's age and concns. of binding proteins in serum, 1792 associations with body weight of some chem. constituents in blood: epidemiologic data, 779

biochem. properties of tartrate-resistant acid phosphatase in serum of adults and children, 1105 blood intermediary-metabolite and insulin

blood intermediary-metabolite and insulin concins, after overnight fast: reference ranges for adults, and interrelations, 1568 deth. of a trivariate ref. region for free thyroxine index, free triiodothyronine index, and thyrotropin from results on middle-aged

women, 1744

women, 1744
direct, nonchromatog. RIA of aldosterone:
validation of a kii, and age-related changes
in concns. in plasma, 1531
excretion of X-prolyl
dipeptidyl-aminopeptidase in urine as detud
with a new fluorogenic substrate, 1163
normalized androgen ratio: index of serum free
17β-hydroxysteroid concn. 1500
RIA of creatine kinase isoenzymes in human
serum: Isoenzyme BB, 422
screening for urinary oligosaccharides: quant.

screening for urinary oligosaccharides: quant. proced. 669

sex-related differences in the ref. values for erythrocytic & aminolevulinic acid dehydratase acty. (L), 726 simultaneous detn. of serum cholesterol in

high- and low-density lipoproteins with use of heparin, Ca²⁺, and anion-exchange resin, 1504

See Aspartate aminotransferase

Sialyltransferase presence of sialyltransferase in human breast and colon cancer (A), 1003

Silica gel porous silica gel as solid support for immobilization of proteins. I. NAD-pyrophosphorylase (A), 1034 Single cell analysis

quantit. ultramicro-scale immunoenzymic method for measuring Ig antigenic determinants in single cells (S), 1325 SMA 12/60

See Continuous-flow analysis

Sodium

development of reference method for detn. of Na in blood serum (A), 1030 evaln. of the Space Stat 30 sodium/potassium ion analyzer (L), 1856 Na measured in albumin solns, with ion-selective electrodes, 580. Specimen handling

should blood samples for assay of plasma renin acty. be chilled? (SN), 2042

Spectrodensitometry spectrodensitometry of nanogram quantities of cholesterol, 1496 Spectrofluorometry
improved spectrofluorometric method for anal.

of histamine in blood (A), 1017 Spectrometry

kinetics of reactions of unconj. and conj.
bilirubins with p-diazobenzenesulfonic acid, 1690

pectrophotofluorometry differential micro detn. of carbamazepine and its epoxide metabolite by spectrophotofluorometry (A), 991

spectrophotofluorometry (A), 991
Spectrophotometry
applications of a new instrument, the
Potentiophotometer, 92
assay of vitamins D₂ and D₃, and
25-hydroxyvitamins D₂ and D₃ in human
plasma by liquid chromatog, 287
bilirubin-protein interactions monitored by

difference spectroscopy, 1491 biochem. properties of tartrate-resistant acid

phosphatase in serum of adults and children, 1105 comparison of RIA enzyme immunoassay, HPLC and U.V. spectrophotometry for the detn. of serum theophylline (A), 1057 enzymatic detn. of phenylalanine and tyrosine (A), 1017

improved spectrophotometric vitamin A assay (L), 386

(L), 586 serum uric acid detnd. by reversed-phase liquid chromatog, with spectrophotometric detection, 536 simple spectrophotometric method for

disopyramide phosphate (Norpace^R) measurement in biol. fluids (A), 991 spectrophotometry of theophylline-7-acetic acid and theophylline (SN), 367

Spectroscopy
reflectance spectroscopy as anal. tool in clin.
lab.: application to the quant. detn. of

lactate dehydrogenase in serum (A), 1009

Spironolactone

cross reactivity of digitoxin and spironolactone
in two RIAs for serum digoxin (SN), 706

STAC

STAC See Discrete analyzer STAC (Sequential Test Analyzer with

STAC (Sequential Test Analyzer with Computer) detn. of total bilirubinusing STAC analyzer system (A), 1060
STAC: initial evaluation (A), 1060
Standard Reference Materials alb. std. ref. material, 399
Standards
See also Quality control
Ce as int. std. in new four-element flame photometer (A), 1061
standardization of alkaline phosphatase acty. measurements, molar absorptivity of p-nitrophenol in various soln. environments (A), 1001 (A), 1001

Statistics

Statistics characteristics of statistical parameters used to interpret least-squares results, 611 comparison of product moment and rank correl, coeffs. in the assessment of lab, method-comparison data, 857 design of statistical quality control procedure to achieve specified std. of anal. performance (A), 1049 determining the probability of result abnormality, 640 misinterpretation of statistical intercept values (L), 1286 personal biochem, profiles: graphical representation and statistical anal. (A), 995 programmable desk-top calculator used for statistical quality control of RIAs, 1121 total social cost to misassigned discriminant values: effects of anal, precision (A), 1049

values: effects of anal. precision (A), 1049

See also specific steroid of interest

adrenal status assessed by direct RIA of adrenal status assessed by direct KIA of cortisol in whole or parotid saliva, 1460 amniotic fluid total estriol, DHEA, 16α-OH-DHEA, cortisol and L/S ratio in late pregnancy (A), 1043 clin. lab. evaln. of serum digoxin and cortisol by RIA procedures on the CONCEPT-4 (A), 1040

evaln. of an aqueous fluorometric continuous-flow method for total urinary estrogens, 631

estrogens, 631
improved cortisol metabolite isolation from
urine of neonates, 1158
improved enzyme immunoassay for
progesterone in human plasma, 2099
1261-RIA for unconjugated estriol in serum of
pregnant women, 1100
method for screening urinary steroids by gas

method for screening urnary secroids by gas chromatog, 193 micro-scale method for liquid scintillation counting, applicable to RIA of steroids and substances of comparable rel. mol. mass (SN), 1193

(SN), 1193
modified method for routine estimation of
urinary 17-hydroxy corticosteroids (A), 994
normalized androgen ratio: index of serum free
17g-hydroxysteroid concn. 1500
simple RIA of cortisol in plasma, 1468
steroid immunoassay in clin. chem. (R), 1869
use of vertical rotor to facilitate estrogen and

use of vertical rotor to facilitate estrogen and progesterone receptor anal. (SN), 1609 Superoxide dismutase micro method for detn. of superoxide dismutase in serum and tissue: contents of rat myocardium (A), 1002

Surgery creatine kinase isoenzyme BB increases in serum after cardiac surgery (L), 1853

Sweat

meas. of Cl⁻ in sweat with the Cl⁻-selective electrode (SM), 2050 measurement of Cl in sweat by use of a selective electrode and strip-chart recorder (SN), 381

Symposium, adv. anal. concepts, tenth introduction (S), 1299

T₃ See Triiodothyronine

T₄ See Thyroxine Tamoxifen

anal. for tamoxifen, an anti-neoplastic agent, in plasma, 1518 Taurine

simplified two-step column-chromatog. detn. of taurine in urine, 321 Tay-Sachs disease hexosaminidase A in amniotic fluid of

Tay-Sachs fetuses, 1131
Theophylline
acetazolamide interference with theophylline

acetazolamide interference with theophylline anal. by liquid chromatog. (LJ, 2208 anal. of theophylline by gas chromatog. without derivatization (AJ, 990) automated enzyme immunoassay of theophylline in serum (SN), 944 cephalosporin antibiotic interference with anal. for theophylline by liquid chromatog. (LJ, 1847 cephalosporin antibiotics interfere with anal. for theophylline by high-performance liquid

cephalosporin antibiotics interfere with anal. for theophylline by high-performance liquid chromatog. (L), 838 comparison of RIA enzyme immunoassay, HPLC and U.V. spectrophotometry for the detn. of serum theophylline (A), 1057 comparison of theophylline measurements by HPLC and enzyme immunoassay (A), 1057 emergency gas-chromatog, assay of phenobarbital and phenytoin, liquid-chromatog, assay of theophylline (SN), 1630 enzyme immunoassay of theophylline with a centrif. analyzer, and comparison with uv

centrif. analyzer, and comparison with uv method (L), 514 enzyme immunoassay of theophylline with the

enzyme immunoassay of theophylline with the ABA-100 (L), 520 enzyme immunoassay of theophylline with centrifugal analyzer (A), 1057 liq. chromatog, defn. of theophylline in blood serum by selective amperor "tric detection (A), 1007 liquid-chromatog, detn. of theophylline in plasma (SN), 357 micro extractive alkylation procedure for gas chromatog, meas of theophylline in serum chromatog, meas of theophylline in serum.

chromatog, meas, of theophylline in serum and saliva using N detector (A), 1057 micro-scale extractive alkylation procedure for gas-chromatog, measurement of theophylline in serum and saliva, with use of

a N detector, 1458 spectrophotometry of theophylline-7-acetic acid and theophylline (SN), 367 theophylline toxicity (CC), 1603

Thermometry

melting-point-of-Ga apparatus for meter calibration (S), 1331

Thermometer cambration (5), 1331
Thioridazine
new metabolites by thioridazine and
mesoridazine (A), 1031
thioridazine and its metabolites in human tissues and fluids obtained postmortem (SN), 1828

Thyroglobulin practical RIA for thyroglobulin, 267 radioimmunological screening test for anti-thyroglobulin autoantibodies, 272 Thyroid-binding globulin

rate nephelometric assay for human TBG (A),

Thyroid disease

Thyroid disease
detn. of a trivariate ref. region for free
thyroxine index, free triiodothyronine index,
and thyrotropin from results on middle-aged
women, 1744
estn. of free triiodothyronine in serum: new
method and its clin. relevance, 1891
free thyroxine in serum as estd. by
polyacrylamide gel filtration, 652
neonatal thyroxine screening by single-tube
solid-phase RIA, 1755
practical RIA for thyroglobulin, 267
radioimmunological screening test for
anti-thyroglobulin autoantibodies, 272
Thyroid function
detn. of a trivariate ref. region for free

detn. of a trivariate ref. region for free thyroxine index, free triiodothyronine index, and thyrotropin from results on middle-aged

women, 1744 Thyroid hormone

detn. of a trivariate ref. region for free thyroxine index, free triiodothyronine index, and thyrotropin from results on middle-aged women, 1744 thyroid hormone contamination in cryst

diiodotyrosine, 1738 Thyroid status

See also Thyroxine, Triiodothyronine, Hypothyroidism, etc. automated 2.25-min thyroxine and

triiodothyronine uptake assays on ARIA II (A), 1039

T

T

T

T T

(A), 1039 clin. significance of triiodothyronines (A), 981 control of assay for thyroxine in blood spots collected on filter paper (A), 1038 direct measurement of thyroxin-binding globulin capacities by agarose gel electrophoresis and autoradiography (A), 1030

free thyroxine detn, direct RIA of serum

dialysates using com. available anti-serum and polyethylene glycol sepn. (A), 1040 q. solid phase RIA system for thyroxine (A),

PTH RIA, methodologic & clin. aspects (A),

RIA detn. of thyroxine and triiodothyronine in rats (A), 1052 solid-phase radioassay for thyroxine binding

solid-phase radioassay for thyroxine binding globulin (A), 1038
solid-phase RIA for T4 in blood on filter paper cards (A), 1038
T4 by RIA: critical evaln. of six commercially available kits (A), 1039
ultramicro technique for serum thyroxine utilizing aggregated anti-thyroxine antibodies (A), 1039
use of T3-test (indirect measurement of TBG) in neonatal screening for hyroxidyidism

in neonatal screening for hypothyroidism (A), 1011

Thyrotropin hyrotropin
detn. of a trivariate ref. region for free
thyroxine index, free triiodothyronine index,
and thyrotropin from results on middle-aged
women, 1744
how rapid is "rapid"? Part II. "rapid"
simultaneous RIA of thyroxine and
thyrotropin (L), 522
neonatal TSH RIA'using dried blood spotted
on filter paper (A), 1038
sequential RIA for serum thyrotropin (A),
1039

Thyroxin-binding globulin direct measurement of thyroxin-binding globulin capacities by agarose gel electrophoresis and autoradiography (A), 1039

Thyroxine

assay for unbound thyroxine (A), 992 assessment of thyroxine by enzyme immunoassay with the ABA-100 analyzer (L), 387

automated measurement of serum thyroxine with the "ARIA II," compared with competitive protein binding and RIA (SN),

ontrol of assay for thyroxine in blood spots collected on filter paper (A), 1038 enzyme immunoassay for detn. of thyroxine binding index (A), 1033

evaln. of homogeneous enzyme immunoassay of serum thyroxine with use of bichromatic anal. (SN), 165 free thyroxine detn. direct RIA of serum

free thyroxine detn. direct RIA of serum dialysates using com. available anti-serum and polyethylene glycol sepn. (A), 1040 free thyroxine in serum as estd. by polyacrylamide gel filtration, 652 how rapid is "rapid"? Part II. "rapid" simultaneous RIA of thyroxine and thyrotropin (L), 522 liq, solid phase RIA system for thyroxine (A), 1040

1040 microencapsulation of antibody for use in RIA for thyroxine and digoxin (A), 1040 negligible effects of nonseterified fatty acids on serum thyroxine anal. by competitive protein-binding radioassay on Sephadex and by RIA, 751

by RIA, 751
neonatal hypothyroidism screening using
serum specimen and T4 by RIA in
community hospital (A), 1011
neonatal thyroxine screening by single-tube
solid-phase RIA, 1755

RIA detn. of thyroxine and triiodothyronine in rats (A), 1052

RIA of thyroxine in canine serum (A), 1014 sensitive, manual enzyme immunoassay for thyroxine (A), 1033

sensitive manual enzyme immunoassay for thyroxine, 1801 solid-phase RIA for T4 in blood on filter paper cards (A), 1038

sources of error in thyroxine screening of

sources of error in divrount screening of neonates by RIA of blood on blotter paper (A), 1011 the "Southmead System," a simple, fully-automated, continuous-flow system for

immunoassays [appendix: application to serum thyroxine RIA], 571 trace binding in digoxin RIA by use of 125]-labeled 3-O-auccinyl-digoxigenin: relation of thyroxine concn. to binding (L),

ultramicro technique for serum thyroxine

ultramicro technique for serum thyroxine utilizing aggregated anti-thyroxine antibodies (A), 1039 Thyroxine binding capacity automated assay for assessing thyroxine binding capacity in serum (A), 1038 Thyroxine binding globulin solid-phase radioassay for thyroxine binding globulin (A), 1038

Tissue analyses spectrodensitometry of nanogram quantities of cholesterol, 1496

Tissue of origin of enzyme in serum isolation of γ-glutamyltransferase from human liver, comparison with that from kidney, 905 Tissue polypeptide antigen

prelim. evaln. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or benign neoplasms, 868

a-Tocopherol detn. of serum α-tocopherol (vitamin E) by liquid chromatog. 585

liquid chromatog. 585
Tonometry
stable blood products for pHblood-gas qual.
control, 793
Total iron-binding capacity
See Iron, Iron-binding capacity
Toxicology
See also Drug assay, Trace elements,
Screening
anal. for barbiturates by HPLC in biol. fluids
(A), 1006

(A), 1006

automated pseudocholinesterase method for toxicological studies of drugs and pesticides (A), 1005

(A), 1005
(B), 1005
(B), 1006
(B), 1006
(B), 1007
(B)

misuse in clin. lab. I. tricyclics (A), 1030 cost-effective approach to AED monitoring using 36-cuvette centrifugal analyzer (A), 1060

detn. of 5-hydroxytryptophan in plasma by liquid chromatog, and fluorometric detection after phthaldialdehyde reaction

detection after phthaldialdehyde reaction (SN), 376
drug screening by enzyme immunoassay wit American Monitor KDA (A), 1031
enzymatic detn. of blood ethanol, with amperometric measurement of rate of O₂

amperometric measurement of rate of O₂ depletion, 621 gas-liquid chromatog, detn. of nicotine and cotinine in plasma, 50 homogeneous enzyme immunoassay for cannabinoids in urine, 95 interlab. comparison: erythrocyte protoporphyrin analyses, 2135

lead screening in children of high risk:

four-year review (A), 1058 pitfalls of the alcohol dehydrogenase proced for emergency assay of alcohol: a case study of isopropanol overdose (CR), 383 quant. toxicol: interlab, and intermethod evaln. in N. Y. state, 442 rapid detn. of light halogenated hydrocarbons in urine, 1109

in urine, 1109
rapid micro method for quantitation of basic
drugs in tissue by gas chromatog. (A), 1030
RIA for mono-(2-ethylhexyl) phthalate in
unextracted plasma, 429
serum methyprylon and its dehydrogenated
metabolite in overdosed patients and dogs
(A), 1060

(A), 1060 simultaneous detection and quantitation of drugs commonly involved in self-administered overdoses, 804 simultaneous HPLC anal. of most common anticonvulsant drugs and their metabolites

(A), 1006 simultaneous liquid-chromatog, detn. of 12 common sedatives and hypnotics in serum, 657

some factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504

programs (518), 304 theophylline toxicity (CC), 1603 thioridazine and its metabolites in human tissues and fluids obtained postmortem

(SN), 1828 toxicol. test-ordering patterns in a large urban general hospital during five years: update

(SN), 507 ultramicro erythrocyte protoporphyrin detn. using solvent extraction without sample transfer (A), 1058 Trace elements anal. for Ni in plasma and urine by

electrothermal at. absorption spectrometry, with sample preparation by protein pptn. (SN), 1198

(SN), 1198 anal. for Pb in undiluted whole blood by Ta ribbon at. absorption spectroscopy, 1182 anal. of Cr in biol. specimens (A), 1029 an echelle spectrometerimage dissector system evald. for simultaneous multielement detns. by atomic absorption spectroscopy,

at. absorption anal. for Cr in serum and urine with modified Perkin-Elmer 603 at.

absorption spectrophotometer, 2151 atomic absorp, spectrophotometry of free circulating Pt species in plasma derived from cis-dichlorodiammineplatinum(II), 877 blood and urine Pb anal, by Zeeman effect

flameless atomic absorption (A), 1031 comparison of interlab. results from blood Pb with results from definitive method (A), 1039

contamination-free serum samples for trace

contamination-tree serum samples for trace anal. (L), 169 Cu coproporphyrin excretion in familial coproporphyria, 2009 detection and elirrination of contaminations interfering with the detn. of Zn in plasma,

detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace,

detn. of Cd in urine by graphite-furnace atomic absorption spectroscopy, 681 detn. of Cr and Co in serum by neutron activn.

anal, 303 anai. 303
evaln. of a radiometric detn. of total and
unsaturated Fe-binding capacities and
serum Fe (SN), 374
evaln. of simple atomic absorption system for

measurement of Ca and Mg in body fluids

(A), 1028 flameless atomic absorption spectrophotometric detn. of Mn in rat brain and other tissues, 471 hair Cr levels in relation to age and number of pregnancies (A), 1029

pregnancies (A), 1029 interlab, comparison of Pb and Cd in blood, urine, and aq. solns. 1797 interlab, comparisons of N anal, in urine by atomic absorp, spectrometry, 862 merit of Zn/creatinine clearance

merit of Zn/creatinine clearance measurements in clin. diagnosis (A), 1028 methods compared for determining Zn in serum by flame at. absorp. spectroscopy, 240 serum Cr and angiographically detud. coronary artery disease, 541 serum Zn and Cu in National Health and Nutrition Examination Survey (A), 1028 some factors affecting the utility of bovine blood as a control material in Pb-screening programs (SN), 504

programs (SN), 504 trace elements in scalp-hair of persons with multiple sclerosis and of normal individuals, whole blood Hg anal, by flameless atomic absorption (A), 1029 Zn contamination in a trace-element control

serum (L), 1652

See specific metal of interest

more on use of hair in trace-metal anal. (L), 391

Transferrin

Transferrin
chem. and immunochem. measurement of
total Fe-binding capacity compared, 1788
Transplant rejection
isolation of γ-glutamyltransferase from human
liver, comparison with that from kidney, 905

Triacylglycerols

Friacyglycerides
See Triglycerides
Tricyclic antidepressants
liquid-chromatog, proced. for tricyclic drugs
and their metabolites in plasma, 87
liquid-chromatog, simultaneous detn. of
commonly used tricyclic antidepressants,

1948

Triglycerides

anal. performance and comparability of detn. of triglycerides by 12 Lipid Research Clinic

of triglycerides by 12 Lipid Research Clinic laboratories, 330 automated proced. for kinetic measurement of total triglycerides (as glycerol) in serum with the Gilford System 3500, 27 automated procedure for kinetic measurement of total triglycerides (as glycerol) in serum with Gilford System 3500 (A), 1019 CDC cooperative cholesterol and triglyceride

standardization program20 years experie (A), 1020

(A), 1020 continuous-flow enzymic method evald, for meas, of serum triglycerides, with improved lipase reagent (SN), 2018 enzymatic detn. of triglycerides in human and haboon serum (SN), 354 enzymatic triglyceride method suitable for long-term population studies, 326 evaln. of Calbiochem-Behring Corp. Triglycerides S.V.R. (single vial reagent) (L), 2210

(L), 2210 glycerol interference with serum triglyceride measurement (A), 1045

measurement (A), 1045
manual and centrifugal analyzer detn. of
cholesterol and triglycerides with single-vial
enzymic reagents (SN), 2026
multilayer film elements for clin. anal.:
applications to representative chem. detns.
(S), 1343

optimized kinetic serum triglyceride detn. (A),

1045

single enzymatic reagent for serum triglyceride detn. on clin. chem. analyzers (A), 1019 variations in plasma non-esterified fatty acid concns. during glucose tolerance test (A),

Triiodothyronine

assessing serum triiodothyronine concus

assessing serum triodothyronine concas, independent of subject's age and concas, of binding proteins in serum, 1792 clinding proteins in serum, 1792 est. of free triodothyronine in serum: new method and its clin. relevance, 1891 immunochem, study of patient with circulating autoantibody to triodothyronine

(A), 992

RIA detn. of thyroxine and triiodothyronine in rats (A), 1052

Triiodothyronine uptake test triiodothyronine uptake test with use of antibody-coated tubes compared to two tests in which pptn sepns. are used (SN),

Trimethadione simultaneous quant. assay of valproate sodium trimethadione, & ethosuximide by GLC (A),

Tris(hydroxymethyl)aminomethane

artifacts in Mn/Tris solns. (L), 2206 Tumor-related antigens

prelim. evaln. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or benign neoplasms, 868 Tyrosine

enzymatic detn. of phenylalanine and tyrosine (A), 1017

evali. 1017
evali. of commercially available
phenylalanine ammonia lyase for the
enzymatic detn. of phenylalanine and
tyrosine (A), 1016
Tyrosinemia
polystyma tuka inspiratory.

polystyrene tube immunoradiometric assay for human α₁-fetoprotein, use for mass screening, 2158

rea development of candidate urea ref. method (A), 997 immobilized-enzyme nylon-tube reactors for routine detn. of urea and citrulline in serum,

Urea nitrogen blood urea N detn. in protein-free filtrate with ureaseglutamate dehydrogenase (A), 1018 evaln. of Kodak 2/2 glucose-BUN analyzer (I) (A), 1063

(A), 1063 kinetic centrifugal analyzer and manual detn. of serum urea N, with use of o-phthaldialdehyde reagent (SN), 2199 multilayer film elements for clin. anal.:

cations to representative chem. detns. application (S), 1343

performance of "Kodak" glucose/BUN analyzer (A), 1063 performance of Kodak 2/2 glucose/urea nitrogen analyzer (A), 1063

quant. non-enzymatic dry-reagent test for urea nitrogen in serum (A), 1018

Uremia

guanidino acids as methyl acceptors in uremia (A), 1013

possible mechanism for intermediate-density lipoprotein accumulation in serum of uremic patients on chronic hemodialysis (A), 1024 continuous-flow anal, for simultaneous detn.

of creatinine and uric acid in serum, without a dialyzer, 1578

detn. of uric acid on continuous-flow (AutoAnalyzer II and SMA) systems with a uricase/phenol/4-aminophenazone color test, enzymatic assay for serum uric acid at 500 nm,

1908

immobilized-enzyme membrane sandwich

reactor used in automated micro-assay of plasma uric acid (SN), 2033 immobilized-enzyme nylon-tube reactor for routine detn. of serum uric acid, 1813 immobilized uricase for continuous-flow assay

of uric acid in serum (A), 1023 improved enzymic uric acid detn. (L), 1846 interference with uric acid measuremen (phosphotungstate method, KDA) by paraprotein (L), 1289

new enzymic method for detn. of uric acid in serum (A), 1023 rapid, kinetic, totally enzymatic detn. of serum uric acid with Technicon STAC system (A),

rapid, precise, and accurate element for th quant. measurement of serum uric acid (A), 1008

serum uric acid detnd. by reversed-phase liquid chromatog, with spectrophotometric detection, 536

uric acid in patients' sera as measured with SMAC (phosphotungstate) and AutoAnalyzer (uricase) (L), 173

uv assay of uric acid in serum or plasma, 562 Urinalysis

assessment of hospital routine urinalysis (L),

proteinuria: accuracy and precision of lab. diagnosis by dip-stick anal. 1934 timing of urinalysis reactions when reagent strips are used (L), 1420

acute pancreatitis, hyperlipemia, and normal amylase (SN), 821 albumin activation of urinary amylase as detnd. with the Du Pont aca (SN), 702 at. absorption anal. for Cr in serum and urine

at. absorption anat. for Cr. in serum and urine with modified Perkin-Elmer 603 at. absorption spectrophotometer, 2151 automated metabolic profiling of org. acids in urine. I. description of methods, 1674 detection of methaqualone in human urine by

RIA and GLC after a therapeutic dose (L)

detn. of Al in biol. samples by at. absorption spectrophotometry with a graphite furnace, 1485 detn. of Cd in urine by graphite-furnace

atomic absorption spectroscopy, 681 detn. of 3-methoxy-4-hydroxyphenylpyruvic acid, 3.4-dihydroxyphenylehylene glycol, and 3.4-dihydroxyphenylehylene glycol, and mass fragmentography, with 2H-labeled intern. stds. 2001

detn. of some L-3,4-dihydroxyphenylalanine and dopamine metabolites in urine by mass

fragmentography, 122 dual-column cation-exchange chromatog.

dual-column cation-exchange chromatog, method for β-aminoisobutyric acid and β-alanine in biol. samples (S), 1373 evaln. of an aqueous fluorometric continuous-flow method for total urinary estrogens, 631 excretion of X-prolyl dipeptidyl-aminopeptidase in trine as detad with a para fluorogenic substrate. 1169

with a new fluorogenic substrate, 1163

high-performance liquid-chromatog, assay for chloramphenicol in biol. fluids, 778 homogeneous enzyme immunoassay for cannabinnoids in urine, 95 improved liquid chromatographic detn. of placental estriol in urine, 2132 interlab. comparison of Pb and Cd in blood, urine, and aq. solns. 1797 kinetics of the Beckman enzymic method for serum and urinary amylase, 762 liquid-chromatography of free nicotinic acid and its metabolite, nicotinuric acid, in plasma and urine, 1740 method for screening urinary steroids by gas

method for screening urinary steroids by gas chromatog. 193 β_2 -microglobulin in urine as index of chronic

Cd exposure (A), 1012 modified method for routine estimation of

urinary 17-hydroxy corticosteroids (A), 994 modn. of choriogonadotropin beta-subunit RIA for detn. of urinary

choriogonadotropin, 1958 plasma estriol vs. estrogen assays in 24-h urines: index to fétal status (SN), 1830 prelim. evaln. of tissue polypeptide antigen in serum or urine (or both) of patients with cancer or benign neoplasms, 868

cancer or benign neoplasms, 868
proteinuria: accuracy and precision of lab.
diagnosis by dip-stick anal. 1934
rapid detn. of light halogenated hydrocarbons
in urine, 1109
RIA for urinary albumin, 1464
RIA for urinary lysozyme in human serum
from leukemic patients, 2155
RIA for urina albumin (A) 1909
RIA for urina albumin (A) 1909

RIA for urine albumin (A), 999 RIA of methaqualone in human urine compared with chromatog. 1473 screening for urinary oligosaccharides: quant. proced. 669

proced. 669
screening for urinary oligosaccharides in a
mentally handicapped population and
patients with other diseases (SN), 714
serum and urinary lysozyme acty. after kidney
transplan: influence of graft function and
therapy with azathloprine, 74
simple detn. of high urinary excretion of
5-hydroxyindole-3-acetic acid with ferric
chloride (SN), 149
simplified two, step column-chromator, detn.

of taurine in urine, 321
urinary enzymes and renal transplantation:
the early warning controversy (L), 724
urinary free methyldopa detnd. by

reversed-phase high-performance liquid

reversed-phase nigh-performance inquid chromatog. 23 urinary polyamine excretion during the menstrual cycle, 769 Uroporphyrinogen I synthase low-cost uroporphyrinogen I synthase screening for acute intermittent porphyria

(L), 730 modified erythrocyte uroporphyrinogen I synthase assay, and its clin. interpretation, 1751

Valnroate

multaneous quant. assay of valproate sodium trimethadione, & ethosuximide by GLC (A),

Vanillylmandelic acid

more on gas-liquid chromatog, detn. of homovanillic and vanillylmandelic acids in urine from cases of neuroblastoma (L), 842 Variation, source of

See also Analytical error, Sex- and age-related effects

another source of contamination from blood-sample containers (L), 2063 antisera as a source of inaccuracy in protein

immunoassays (L), 388 associations with body weight of some chem. constituents in blood: epidemiologic data,

T72
automated assay of γ-aminobutyric acid in
human CSF, 256
blood-collecting tube as a contamination
source in vitamin E fluorometry (L), 2073
creatine kinase in serum: 5, effect of thiols on

isoenzyme acty. during storage at various temps. 1557 detection and elimination of contaminations

interfering with the detn. of Zn in plasma,

detn. of Cr and Co in serum by neutron activn.

anal. 303
diurnal variation of serum Fe in normal individuals (L), 842
effect of diluent temp. on creatine kinase

values found for lyophilized controls and ref. sera (SN), 2039

effect of in vitro hemolysis on chem, values for

effect of posture of subject on ref. values (L),

effects of bilirubin on detection of H2O2 by

effects of bilirubin on detection of H₂O₂ by use of peroxidase, 1.778 effects of blood-collection tubes on plasma, sera, and blood levels of amitriptyline and nortriptyline (A), 1059 electrophoretic patterns on agarose of human serum very-low-density lipoproteins, 1439 external quality-control survey of cholesterol anal. performed by 12 Lipid Research Clinics, 1477 Clinics, 1477 factors affecting measurement of total alkaline

lactors affecting measurement of total alkaline phosphatase acty, in serum, especially wavelength accuracy (SN), 938 impurity in the buffer 2-amino-2-methyl-1-propanol that depresses values for alk, phosphatase acty, (SN), 1611 inter-batch quality differences in purified human prolactin (SN), 941

numan protactin (SN), 941 interference by tubing material in continuous-flow systems (SN), 2170 interlab. comparisons of N anal. in urine by atomic absorp. spectrometry, 862 interlab. study of measurement of aspartate

aminotransferase acty. with use of purified

enzyme, 916 kinetics of reactions of unconj. and conj. bilirubins with p-diazobenzenesulfonic acid, 1690

lab. standn. in an internat. study: the Kaunas-Rotterdam Intervention Study (KRIS), 1126 microbial contamination of automated

analyzers (L), 1288 pitfalls of use of lipemic serum with the Technicon SMAC and Du Pont aca (L),

posture and plasma composition (SN), 824

posture and plasma composition (SN), 824
results for serum vs. plasma in 15 selected
redioassays (SN), 137
sho.id blood samples for assay of plasma
renin acty, be chilled? (SN), 2042
urinary polyamine excretion during the
menstrual cycle, 769
variance components of serum constituents in
healthy individuals, 212
Veterinary chemistry
enzymic micro-assay for blood glutamine, 1730
reduced-volume RIAs for parathyrin and
calcitonin in serum, for pediatric,
small-animal studies (SN), 1833
Vitamin A

improved spectrophotometric vitamin A assay

(L), 386 simultaneous detn. of retinol and retinyl esters in serum or plasma by reversed-phase liquid

chromatog. 1920

chromatog. 1920

Vitamin B₁₂
coated tube assay for B₁₂ with
hapten-modified intrinsic factor as
competititive protein-binder (A), 1054
effect of ascorbic acid in vitamin B₁₂
quality-control sera (L), 176
human saliva as binder in the serum vitamin
B₁₂ radioassay system (A), 1054
solid-phase RIA for vitamin B₁₂ in serum, with
use of radioiodinated tyrosine methyl ester
of vitamin B₁₂, 460
use of either serum or plasma for folate and
vitamin B₁₂ detns. (L), 178

Vitamin D

Vitamin D

ntamin D assay o. vitamins D₂ and D₃, and 25-hydroxyvitamins D₂ and D₃ in human plasma by liquid chromatog., 287 high-performance liquid chromatog, assay to

measure 25-hydroxyvitamin D₂ and 25-hydroxyvitamin D₃ simultaneously in serum (SN), 927

hlamin B blood-collecting tube as a contamination source in vitamin E fluorometry (L), 2073 detn. of serum α-tροορherol (vitamin E) by liquid chromatog. 585 Vitiligo

detn. of 8-methoxypsoralen in plasma by scanning fluorometry after thin-layer chromatog., 1155

X-prolyl dipeptidyl-aminopeptidase excretion of X-prolyl dipeptidyl-aminopeptidase in urine as detnd with a new fluorogenic substrate, 1163

detection and elimination of contaminations interfering with the detn. of Zn in plasma,

methods compared for determining Zn in serum by flame at. absorp. spectroscopy, 240 plasma Ca, Cu, Mg, and Zn concns. in patients with alcohol withdrawal syndrome, 1553

clinical chemistry

J. Stanton King, Executive Editor P.O. Box 5218 Winston-Salem, N. C. 27103 (Tel. 919/725-0208)

Journal of the American Association for Clinical Chemistry

VOLUME 24 1978

BOARD OF EDITORS

Chairman: Donald S. Young Mayo Clinic, Rochester, Minn.

Bernard Berne

Walter Reed General Hospital Washington, D. C.

Paige K. Besch

Baylor College of Medicine Houston, Tex

Gerald R. Cooper

Center for Disease Control Atlanta, Ga.

William A. Cornatzer

Univ. of North Dakota Grand Forks, N. D.

Robert L. Dryer

University of Iowa Iowa City, Iowa

Kurt M. Dubowski

University of Oklahoma Oklahoma City, Okla.

Merle A. Evenson

John Landon (England)

University of Wisconsin Hospitals Madison, Wisc.

Joseph W. Goldzieher

Southwest Found. for Res. and Educ. San Antonio, Texas

Hanns-Dieter Gruemer

Medical College of Virginia Richmond, Va.

Peter I. Jatlow

Yale University School of Medicine New Haven, Conn.

Robert B. McComb

Hartford Hospital Hartford, Conn.

Harry L. Pardue

Purdue University Lafayette, Ind.

Theodore Peters, Jr.

The Mary Imogene Bassett Hospital Cooperstown, N. Y.

William C. Purdy

McGill University Montreal, Quebec, Can.

Abraham Saifer

Hunter College New York, N. Y.

John Savory

Univ. of Virginia Medical Center Charlottesville, Va.

Robert Schaffer

National Bureau of Standards Washington, D. C.

F. William Sunderman, Jr.

Univ. of Connecticut Farmington, Conn.

Mario Werner

George Washington Univ. Washington, D. C.

Advisory Board

J. R. Hobbs (England) Ole Siggaard-Andersen (Denmark) Yuichi Yamamura (Japan)

F. Peter Woodford (England)

Editorial Board, Selected Methods

Gerald R. Cooper, Chairman Richard H. Gadsden Paige K. Besch

Merle A. Evenson Judith A. Hopkins Willard E. Faulkner Peter I. Jatlow Martin Fleisher

Jack H. Ladenson Henry C. Nipper Eugene W. Rice

Martin Rubin

Lawrence M. Killingsworth

Raymond E. Vanderlinde

Eline Van Anden, Copy Editor

Marian Hartness. Editorial Assistant

Business Office Tel. (202) 833-3590 1725 K St., NW Washington, D. C. 20006

January: pages 1-188

February: pages 189-402

March: pages 403-530

April: pages 531-740

May: pages 741-852

June: pages 853-1094

July: pages 1095-1298

August: pages 1299-1438

September: pages 1439-1662

October: pages 1663-1868

November: pages 1869-2080

December: pages 2081-2276

